COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE.

BULLETIN No. 33.

TABULATED ANALYSES

OF

COMMERCIAL FERTILIZERS

FROM

SAMPLES SELECTED IN ACCORDANCE WITH ACT OF JUNE 28, 1879,

BY THE

Pennsylvania Department of Agriculture,

FROM AUGUST 1st, 1897, TO JANUARY 1st, 1898.

WM. STANLEY RAY,
STATE PRINTER OF PENNSYLVANIA.
1898.

DEPARTMENT OF AGRICULTURE
COMMONWEALTH OF PENNSYLVANIA

AN ACT

To regulate the manufacture and sale of commercial fertilizers.

Section 1. *Be it enacted, &c.*, That every package of commercial fertilizer sold, offered or exposed for sale for manurial purposes within this Commonwealth, shall have plainly stamped thereon the name of the manufacturer, the place of manufacture, the net weight of its contents, and an analysis stating the percentage therein contained of nitrogen, or its equivalent in ammonia, in an available form, of potash soluble in water, of soluble and reverted phosphoric acid, and of insoluble phosphoric acid: *Provided*, That any commercial fertilizer sold, offered or exposed for sale which shall contain none of the above named constituents shall be exempt from the provisions of this act.

Section 2. Every manufacturer or importer of commercial fertilizers as specified in section one of this act, shall on or before the first day of January, next ensuing, or before offering them for sale in this Commonwealth, file annually with the Secretary of the State Board of Agriculture, an affidavit showing the amount of said fertilizer sold within the Commonwealth during the last preceding year, and if the said amount shall be one hundred tons or less, he shall pay to the Treasurer of the State the sum of ten dollars for each and every article of such commercial fertilizer sold within the State during the last preceding year, and if the said amount shall exceed one hundred tons and be less than five hundred tons, he or they shall pay the sum of twenty dollars as aforesaid, and if the said amount shall be five hundred tons or more, he or they shall pay the sum of thirty dollars as aforesaid. If such manufacturer or manufacturers, importer or importers, shall not have made any sales within the Commonwealth during the preceding year, he or they shall pay the sum of ten dollars as aforesaid. Every such manufacturer shall at the same time file with the Secretary of the State Board of Agriculture, a copy of the analysis required by section one of this act, and shall then be entitled to receive from the Secretary of the State Board of Agriculture, a certificate showing that the provisions of this act have been complied with: *Provided*, That the certificates which have been issued for the year ending July thirty-first, one thousand eight hundred and ninety-five, are hereby extended until the thirty-first day of December, one thousand eight hundred and ninety-five. (*As amended by act, June 26. 1895.*)

Section 3. Any person selling, offering or exposing for sale any commercial fertilizer without the analysis required by section one of this act, or with an analysis stating that it contains a larger percentage of any or more of the above named constituents than is contained therein, or for the sale of which all the provisions of section two have not been complied with, shall be guilty of a misdemeanor, and on conviction, shall forfeit a sum not less than twenty-five and not exceeding one hundred dollars for the first offense, and not less than two hundred dollars for each subsequent offense, one-half of which shall be for the use of the informer, and the remainder for the county in which the conviction is secured: *Provided*, Said informer be the purchaser and goods be for his own use.

Section 4. It shall be the duty of the Board of Agriculture to analyze such specimens of commercial fertilizers as may be furnished by its agents, said samples to be accompanied with proper proof, under oath or affirmation, that they were fairly drawn; the fee for such analysis shall be determined by the executive committee of the Board, and be based upon a fixed rate for each determination, and shall in no case exceed seventy-five per centum of the usual price paid for such services, and shall be payable from the Treasury of the Commonwealth in the manner as now provided by law.

Section 5. That the money paid into the treasury under the provisions of this act shall constitute a special fund from which the cost of selecting samples, making analyses and other expenses incident to the carrying into effect the provisions of this act shall be paid: *Provided*, That the total amount thus expended shall in no case exceed the amount paid into the Treasury. (*As amended by act, May 21, 1895.*)

Section 6. The term "commercial fertilizers," as used in this act, shall be taken to mean any and every substance imported, manufactured, prepared, or sold for fertilizing or manuring purposes, except barnyard manure, marl, lime, and wood ashes, and not exempt by the provisions of section one of this act.

Section 7. This act shall go into effect on and after the first day of August, one thousand eight hundred and seventy-nine.

Approved:—June 28, 1879.

NOTE.

VALUATIONS.

DEPARTMENT OF AGRICULTURE,
HARRISBURG, PA., January 1, 1898.

While the Department recognizes the desirability of retaining the same schedule of valuations as long as possible, it was found that, during the years 1895 and 1896, the decrease in the prices of fertilizer materials was such as rendered the schedule adopted too high, and as a natural result the "Commercial Values" of nearly all brands of fertilizers exceeded their "selling price at the point of selection."

In order to remedy this difficulty and restore the balance between "commercial value" and "selling price," Dr. William Frear, Chemist of the Department, recommended a new schedule of values, which was adopted for the list of tabulated analyses of samples selected from January 1, 1897 to August 1, 1897. This schedule has been continued, and is made use of in establishing the valuations of this list, and the figures upon which the valuations are based is inserted below.

Respectfully yours,

THOS. J. EDGE,
Secretary, &c.

SCHEDULE OF VALUES FOR FERTILIZER INGREDIENTS, 1897.

	Cents per pound.
Nitrogen, in ammonia salts,	13½
in nitrates,	14
In dry and fine ground fish, meat and blood, and in mixed fertilizers,	14
in cotton seed meal and castor pomace,	12
in fine bone and tankage,	10
in medium bone and tankage,	9
in coarse bone and tankage,	7

Phosphoric acid, soluble in water, in bone fertilizers, ...	$5\frac{1}{2}$
soluble in water, in rock fertilizers, ...	3
soluble in ammonium citrate, in bone fertilizers, ...	5
soluble in ammonium citrate, in rock fertilizers, ...	$2\frac{1}{2}$
insoluble in ammonium citrate, in bone fertilizers, ...	2
insoluble in ammonium citrate, in rock fertilizers, ...	$1\frac{1}{2}$
Phosphoric acid in fine bone, tankage and fish, ...	$3\frac{1}{2}$
in medium bone and tankage, ...	$2\frac{1}{2}$
in coarse bone and tankage, ...	2
acid, in fine ground fish, cotton seed meal, castor pomace and wood ashes, ...	$4\frac{1}{2}$
Potash in high grade sulphate and in forms free from muriate (or chloride), ...	5
as muriate, ...	$4\frac{1}{2}$

Potash in excess of that equivalent to the chlorine present, will be valued as sulphate, and the remainder as muriate.

Nitrogen in mixed fertilizers will be valued as derived from the best sources of organic nitrogen, unless clear evidence to the contrary is obtained.

Phosphoric acid in mixed fertilizers is valued at bone phosphoric acid prices unless clearly found to be derived from rock phosphate.

Ground Bone is sifted into three grades of the following fineness: Fine, less than 1-50 inch; medium, less than 1-25 inch; coarse, over 1-25 inch.

The result obtained by the use of these valuations does not cover the items of mixing, bagging, freight and agents' commissions. To cover these, allowances are made as follows:

For freight, an allowance of $2.00 per ton on all fertilizers.

For bagging, an allowance of $1.00 per ton on all fertilizers.

For mixing, an allowance of $1.00 per ton for complete fertilizers, and rock and potash goods.

For agents' commissions, an allowance of 20 per cent. is added to the cash value of the goods ready for shipment.

TABULATED ANALYSES OF COMMERCIAL FERTILIZERS.

From samples selected by the Secretary and Special Agents of the Pennsylvania Department of Agriculture. Analyses by DR. WILLIAM FREAR, *Chemist of the Department, and of the State College Experiment Station, State College, Pa.*

Samples Selected from August 1, 1897 to January 1, 1898.

COMPLETE FERTILIZERS.

Containing Phosphoric Acid, Potash and Nitrogen.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
805	American Reduction Co., Pittsburg, Pa.,	Pouter Brand, ...	Carrolltown, ...	5.62	6.07	2.58	0.95	2.28	1.44	$23 49	$22 00	805
806	" " " "	Pouter General Phosphate, ...	Carrolltown, ...	4.86	2.88	1.77	4.42	2.08	1.82	20 85	23 00	806
807	" " " "	Common Sense, ...	Carrolltown, ...	6.62	2.28	1.63	0.51	0.92	1.94	17 12	17 00	807
874	" " " "	Pouter Brand, ...	Circleville, ...	4.50	3.94	2.05	2.75	2.19	1.75	21 78	24 00	874
1492	" " " "	Special Potato Fertilizer, ...	Mt. Chestnut, ...	4.61	0.42	1.01	0.64	8.19	2.84	25 76	30 00	1492
555	Armour Fertilizer Works, Chicago, Ill., ..	Ammon'ted Bone with Potash,	Somerset, ...	3.71	1.70	4.51	3.99	1.44	2.88	25 45	25 00	555
993	" " " " ..	Blood, Bone and Potash, ...	Bellefonte, ...	4.33	6.56	3.00	1.31	7.57	4.85	42 63	43 00	993
996	" " " " ..	All Soluble, ...	Bellefonte, ...	2.77	2.33	5.37	4.78	5.09	3.03	32 60	36 00	996

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1354	Armour Fertilizer Works, Chicago, Ill., ..	Grain Grower, ...	Ellwood City, ...	4.27	6.23	4.52	5.19	2.29	2.68	32 11	25 00	1354
952	R. S. Aucker, Shamokin, Pa., ...	Grade B., Bone & Sl'ter House,	Snydertown, ...	6.11	3.93	4.07	1.77	3.53	1.23	23 36	21 00	952
953	" " "	Grade C., Bone & Sl'ter House,	Snydertown, ...	8.02	5.46	3.32	1.43	3.11	0.89	22 63	20 00	953
955	" " "	Grade A., Bone & Sl'ter House,	Snydertown, ...	7.07	3.98	5.72	1.91	3.29	1.74	26 88	23 00	955
824	Baltimore Guano Co., Baltimore, Md., ...	Baltimore Sp'l Wheat Mixture,	Johnstown, ...	7.97	4.94	4.75	1.82	2.41	1.14	23 96	26 00	824
826	" " " "	Baltimore Special, ...	Johnstown, ...	8.27	5.39	5.33	1.38	2.09	1.12	24 56	26 00	826
891	" " " "	B. & G. Ammoniated Phos., ..	Dutra Station, ...	6.88	8.79	0.11	2.65	2.15	1.50	24 78	24 00	891
1341	" " " "	Sp'l Wheat, Corn & Grass Mix.,	Everett.	5.63	5.31	4.25	2.42	2.40	1.10	23 96	25 00	1341
1373	" " " "	Game Guano, ...	Delano, ...	6.19	7.12	1.76	2.60	2.97	2.22	27 78	25 00	1373
1481	" " " "	Ammoniated Bone Phosphate,	Zelienople, ...	7.47	5.69	4.52	1.40	2.42	1.43	25 46	26 00	1481
1482	" " " "	Eagle Phosphate, ...	Zelienople, ...	9.92	5.75	3.94	2.18	1.23	0.75	21 64	24 00	1482
923	Baltimore Pulverizing Co., Baltimore, Md.,	Special Potato Manure, ...	Carlisle, ...	5.24	2.03	3.21	3.53	3.61	1.87	22 95	25 00	923
633	Baugh & Sons' Co., Philadelphia, Pa., ...	General Crop Grower, ...	Red Lion, ...	10.79	6.15	3.37	2.40	1.62	1.31	23 78	18 00	633
660	" " " "	Double Eagle Phosphate, ...	Red Lion, ...	8.82	5.29	4.63	3.76	0.87	2.29	27 43	23 50	660
662	" " " "	Amm'd Bone & Potash Comp'd,	Red Lion, ...	11.60	5.86	3.15	3.28	2.24	1.90	26 31	23 50	662
681	" " " "	Wheat Fertilizer, ...	Delta, ...	12.61	6.07	3.35	2.88	2.28	1.97	26 84	23 00	681
1290	" " " "	$25.00 Phosphate, ...	Rosedale, ...	10.54	6.02	3.86	3.20	0.96	2.20	26 97	24 00	1290

1048	A. H. Bierly & Son, Ladiesburg, Md., ...	Ammoniated Bone Phosphate,	Gettysburg, ...	8.57	6.05	3.36	2.02	1.00	0.56	20 32	18 00	1048
973	D. Blocher & Co., Baltimore, Md., ...	Diss. Raw Bone and Potash,	Mifflinburg, ...	10.68	8.74	2.40	0.84	2.69	2.03	29 05	23 00	973
965	Bowker Fertilizer Co., Boston, Mass., ...	Sure Crop Phosphate, ...	White Deer, ...	7.33	4.63	5.36	4.33	1.24	1.15	24 25	23 00	965
1444	" " " "	Bone and Potash, ...	Chalfont, ...	4.76	1.82	3.21	7.26	2.39	1.75	22 64	30 00	1444
1445	" " " "	Wheat Grower, ...	Chalfont, ...	5.71	5.40	6.46	3.16	1.18	0.32	15 61	23 00	1445
1093	D. M. Boyd, Jr., Danville, Pa., ...	Farmers' Champion, ...	Washingtonville, ..	7.98	4.63	4.17	6.08	3.35	0.89	25 10	23 00	1093
1038	A. R. Brodbeck, Hanover, Pa., ...	Jay Eye See Standard Amm'd,	Dillsburg, ...	9.79	6.99	4.64	2.30	1.88	0.72	24 73	25 00	1038
746	S. B. Brodbeck, Brodbeck's, Pa., ...	Reliable Phosphate, ...	York, ...	10.75	7.31	2.20	1.43	2.32	0.83	22 71	17 00	746
747	" " "	Standard Ammoniated Phos.,	York, ...	10.68	8.11	2.35	1.94	2.32	1.58	26 71	21 00	747
594	Bradley Fertilizer Co., Boston, Mass, ...	Manure for Vege. & Potatoes.	Franklin, ...	11.19	4.39	4.41	2.35	5.95	3.52	34 81	40 00	594
595	" " " "	Dissolved Bone with Potash,	Franklin, ...	12.90	4.98	3.83	2.56	2.07	1.03	22 53	30 00	595
596	" " " "	Sea Fowl Guano, ...	Franklin, ...	10.15	5.56	3.10	2.62	1.69	2.11	25 62	35 00	596
818	" " " "	Niagara Phosphate, ...	Johnstown, ...	10.83	5.23	3.09	2.31	2.21	1.09	22 23	23 00	818
820	" " " "	Ex. Fine Gr. Bone with Potash,	Johnstown, ...	4.37	1.58	4.01	10.34	1.96	2.02	25 11	27 00	820
1189	" " " "	Bean and Potato, ...	Wick, ...	13.85	4.13	4.27	1.95	4.02	1.35	24 78	30 00	1189
1439	The Bradley Fert. Co. of Phila., Phila., Pa..	Standard Bone Phosphate, ...	North Wales, ...	7.81	1.89	9.47	1.52	2.41	1.60	27 00	28 00	1439
1440	" " " "	Popular Fertilizer, ...	North Wales, ...	9.47	0.24	9.46	1.15	1.91	0.81	21 37	25 00	1440
811	Cambria Fertilizer Co., Johnstown, Pa., ..	Standard Phosphate, ...	Carrolltown, ...	6.95	3.90	4.02	4.94	4.69	1.52	26 84	25 00	811
1331	" " " " ..	Lion Brand Phosphate, ...	Stoyestown, ...	4.44	5.23	4.03	3.33	0.50	2.87	27 90	30 00	1331
1332	" " " " ..	Standard Phosphate, ...	Stoyestown, ...	4.78	3.29	4.00	5.69	3.74	2.35	28 24	26 00	1332
749	Chandler, Russell & Chandler, Newark, N.J..	Champion Manure, ...	York, ...	9.69	1.74	6.79	1.49	2.73	0.85	21 40	21 00	749
750	" " " "	Harvest Queen Phosphate, ...	York, ...	9.02	5.79	6.08	1.58	2.97	1.29	27 68	23 00	750
789	Chemical Co. of Canton. Baltimore, Md.,	Harrow Brand, ...	Hanover, ...	9.00	4.73	4.13	2.97	1.49	0.57	14 85	17 00	789
900	" " " "	Red Clover Brand, ...	Gardner's Station.	5.18	4.41	3.08	1.47	1.41	0.77	18 66	18 00	900

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
925	Chemical Co. of Canton, Baltimore, Md.,	Baker's Standard High Grade,	Mechanicsburg, ...	8.42	7.31	1.29	2.67	2.82	2.09	26 95	25 00	925
926	" " " "	Resurgam Guano, ...	Mechanicsburg, ...	8.12	5.50	4.07	2.17	2.33	1.39	24 86	23 00	926
1506	" " " "	Baker's Sp'l C. & G. Mixture,..	Ambler, ...	8.90	4.24	4.68	2.58	2.50	3.95	22.77	25.00	1506
1455	R. L. Christie & Co., Baltimore, Md., ...	Special for Wheat and Grass,	Kirkwood, ...	10.00	6.52	2.48	3.72	1.77	1.74	25 53	19 50	1455
905	Clark's Cove Fertilizer Co., New York, ...	Defiance Complete Manure, ..	Graythorn, ...	11.71	3.84	4.45	2.96	2.10	1.34	23 05	23 00	905
906	" " " "	King Philip Alkaline Guano, ..	Graythorn, ...	15.62	3.28	2.51	2.21	3.09	1.55	21 37	25 00	906
1319	E. A. Clendennin & Bro., Colora, Md.,.....	F.F.V.,Farmers' Fav.Vegeta'r,	Nottingham, ...	9.09	6.74	3.64	2.16	1.06	0.68	22 22	18 00	1319
1372	" " " "	Q. & L. Ammoniated Phosphate,	Sarver's Station, ..	4.75	11.60	3.37	1.07	0.50	0.70	27 19	24 00	1372
1489	Cleveland Dryer Co., Cleveland, O., ...	Potato & Vegetable Fertilizer,	Zelienople, ...	8.89	5.97	2.09	3.10	3.54	2.88	30 81	34 00	1489
716	E. Frank Coe Company, New York, ...	Ammoniated Bone Super-Phos.,	Biglerville, ...	8.73	8.13	2.77	2.72	1.69	1.68	27 51	30 00	716
1066	" " "	Grass and Grain Fertilizer, ...	Biglerville, ...	7.95	7.99	3.53	2.77	1.85	1.18	26 79	25 00	1066
1144	Henry Cope & Co., Lincoln University, Pa.,	Pure Bone Phosphate, ...	West Grove, ...	4.50	2.96	7.37	3.44	2.29	1.97	27 81	25 00	1144
1275	" " " "	Pennsylvania Wheat Grower,	West Grove, ...	7.20	3.07	4.93	2.16	4.42	1.17	24 02	25 00	1275
1299	Josiah Cope & Co., Lincoln University, Pa.,	Try Me Bone Phosphate, ...	Oxford, ...	7.37	7.95	3.34	2.59	4.18	1.34	30 44	24 00	1299
1300	" " " "	Pure Bone Phosphate, ...	Oxford, ...	9.12	4.20	4.51	3.96	3.75	2.18	28 69	26 00	1300
602	Crocker Fert. & Chem. Co., Buffalo, N. Y.,	Potato,Hop and Tobacco Phos.,	Union City, ...	7.51	8.56	3.18	1.07	3.72	2.31	31 76	29 00	602
603	" " " "	Amm. Wheat & Corn Phos.,	Union City, ...	7.33	8.14	3.07	1.20	2.01	2.27	29 12	28 00	603

927	" " " "	Queen of the Harvest, ...	Mechanicsburg, ...	6.44	6.55	2.90	0.68	2.11	1.17	23 00	23 00	927
928	" " " "	Superlative Ammoniated Bone,	Mechanicsburg, ...	7.15	8.48	2.59	0.73	2.68	2.09	29 05	25 00	928
1223	" " " "	New Rival Amm. Phosphate,	Millville, ...	8.76	6.29	3.81	1.78	1.85	1.16	24 01	26 00	1223
1438	" " " "	Buffalo Fertilizer, ...	Chalfont, ...	8.29	8.43	2.76	1.42	1.92	2.13	28 81	28 00	1438
918	Cumberland County Fert. Co., Carlisle, Pa.,	Patrons' Delight, Grade C., ..	Greason, ...	9.20	3.55	3.11	2.13	4.10	1.90	24 66	25 00	918
919	" " " "	Prolific Brand, ...	Greason.	6.88	1.63	7.62	1.96	1.31	0.59	20 08	18 00	919
920	" " " "	Alliance Favorite, No. 1., ...	Greason, ...	10.11	3.93	4.73	2.36	2.17	1.08	22 41	20 00	920
1190	Cumb'land Bone—Phos. Co., Boston, Mass.,	Cumberland Guano, ...	Wick, ...	11.68	5.19	3.63	2.14	2.23	1.22	23 68	22 00	1190
1212	" " " "	Hawkeye Fertilizer, ...	Middle Lancaster,	13.22	4.70	3.70	2.09	1.28	1.10	21 15	26 00	1213
1215	" " " "	Super-Phosphate, ...	Middle Lancaster,	8.83	3.95	5.17	2.80	2.37	2.13	26 91	32 00	1215
1216	" " " "	Guano, ...	Middle Lancaster,	10.44	5.04	3.62	2.40	2.09	0.96	22 00	28 00	1216
778	Louis F. Detrick, Baltimore, Md., ...	Sockless & Shoeless Phosphate,	Turnpike Station...	11.23	7.09	2.62	2.51	1.37	1.24	23 76	19 00	778
762	Detrick Fert. & Chem. Co., Baltimore, Md.,	Ammoniated Bone Phosphate,	Glen Rock, ...	11.04	7.90	1.97	2.72	1.23	1.37	24.42	20 00	762
839	" " " "	Imperial Compound, ...	Tyrone, ...	10.84	7.91	2.50	2.35	1.16	0.88	23 23	19 00	839
1080	" " " "	Special Mixture, ...	Middleburg, ...	9.20	6.84	2.67	3.78	1.22	1.03	23 28	18 00	1080
1088	" " " "	Royal Crop Grower, ...	Strawberry Ridge,	6.81	7.35	2.64	3.44	2.03	1.84	27 38	20 00	1088
1419	Jas. G. Downward & Co., Coatesville, Pa.,	High Grade Raw Bone Phos.,	Gwynedd, ...	9.41	6.90	1.70	0.91	4.94	2.54	29 90	35 00	1419
1467	" " " "	Bone, Rock and Potash, ...	Norwood, ...	8.65	4.49	3.77	2.27	4.45	0.66	22 98	19 00	1467
719	Eureka Fertilizer Co., Perryville, Md., ...	Grain and Grass Mixture, ...	Fairfield, ...	10.18	7.53	3.73	2.81	1.78	0.93	25 29	22 00	719
769	" " " "	Standard Bone Phosphate, ...	Stewartstown, ...	10.67	7.20	3.54	2.36	2.23	1.01	25 09	22 00	769
835	" " " "	Imperial Bone Phosphate, ...	Bradley Junction, .	9.25	7.60	3.11	3.61	1.46	0.89	24 48	21 00	835
837	" " " "	Farmers' Favorite Bone Phos.,	Bradley Junction, .	9.22	7.47	3.11	3.33	1.13	1.14	23 60	24 00	837
1087	" " " "	Farmers' Favorite Bone Phos.,	Turbotville, ...	9.19	7.02	3.51	3.00	1.98	1.22	25 54	23 00	1087
754	Eurich & Brooks, York, Pa., ...	Farmers' Favorite Phosphate,	York, ...	4.27	5.75	4.94	1.65	1.15	0.56	15 21	20 00	754
1056	W. S. Farmer & Co., Baltimore, Md., ...	Clyde Brand, ...	Littlestown, ...	9.47	7.64	2.42	1.02	2.53	0.88	23 71	20 00	1056

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
699	Farmers' Fertilizer Co., Westminster, Md.,	No. 1. Bone Phosphate, ...	New Oxford, ...	12.01	7.04	2.84	1.20	2.70	1.96	27 18	22 00	699
1042	" " " "	No. 3 Bone Phosphate, ...	Dillsburg, ...	11.15	7.94	2.40	1.14	2.59	1.38	25 84	20 00	1042
1682	Garbage Plant at Lancaster, Pa., ...	Garbage Ashes, ...	Lancaster, ...	0.23	0.15	0.37	1.64	0.35	0.06	1 64	.....	1682
1509	Joseph R. Gawthrop, Kennett Square, Pa.,	Complete Am. Bone Phosphate,	Concord, ...	2.86	5.72	2.44	4.66	2.01	1.14	23 36	23 00	1509
1510	" " " "	Champion Bone Fertilizer, ...	Concord, ...	2.83	2.81	3.25	9.03	2.00	2.05	25 56	25 00	1510
580	Charles V. Geiger, Geigers' Mills, Pa., ...	Pennsylvania Crop Grower, ...	Hummelstown, ...	7.97	6.05	3.32	1.31	1.45	0.90	21 63	20 00	580
1496	" " " "	Try Me Bone and Potash, ...	Gap, ...	8.88	6.55	2.74	1.30	6.04	1.79	29 56	25 00	1496
644	Griffith & Boyd, Baltimore, Md., ...	Queen Phosphate, ...	Lewisburg, ...	11.30	6.32	2.64	2.21	2.77	1.14	23 79	25 00	644
941	" " "	Peerless Fertilizer.	Paxinos, ...	9.80	4.63	3.18	1.95	2.34	0.33	14 07	16 00	941
968	" " "	Ammoniated Bone Phosphate,	New Columbia, ...	7.04	8.04	2.46	2.35	2.47	1.68	27.66	24 00	968
969	" " "	Cereal Bone Plant Food, ...	New Columbia, ...	10.71	5.00	3.28	2.21	2.61	0.73	21 34	20 00	969
1065	" " "	Valley Fertilizer, ...	Littlestown, ...	7.24	5.21	3.38	2.43	3.50	0.54	16 57	15 00	1065
578	Great Eastern Fertilizer Co., New York,	English Wheat Grower, ...	Shartlesville, ...	6.11	0.64	10.07	1.42	2.11	0.94	23 52	23 50	578
586	" " " "	General Wheat Special, ...	Hummelstown, ...	8.41	0.44	10.03	1.50	2.03	1.73	25 82	23 00	586
587	" " " "	English Wheat Grower, ...	Hummelstown, ...	7.72	0.70	10.13	1.45	1.99	0.96	23 55	19 00	587
588	" " " "	Great Eastern General, ...	Hummelstown, ...	8.48	0.45	9.57	1.15	3.87	1.23	25 38	22 50	588
733	Hanover Bone Fert. Co., Hanover, Pa., ..	Farmers' Crop Winner, ...	New Oxford, ...	6.09	3.98	5.01	1.26	1.85	0.57	14 64	16 00	733

734	" " " " ..	Blood and Bone Compound, ...	New Oxford, ...	7.01	5.15	3.56	1.80	2.60	1.05	22 66	19 50	734
888	" " " " ..	Daron's Harvest King, ...	Hanover, ...	5.36	6.14	3.13	2.16	5.09	1.71	28 56	23 00	888
1337	S. M. Hess & Bro., Philadelphia, Pa., ...	Keystone Bone Phosphate, ...	Bedford, ...	8.98	7.70	2.66	1.26	2.24	0.88	23 80	23 00	1337
1456	John W. Hickman, Russellville, Pa., ...	New Method Insecticide Fert.,	Kirkwood, ...	9.09	7.92	2.97	1.47	3.37	0.95	25 95	21 00	1456
1415	Frank Houston, Ambler, Pa., ...	Wheat Grower, ...	Ambler, ...	14.94	8.90	2.00	0.31	2.60	1.73	27 38	26 00	1415
1416	" " "	General Crop Fertilizer, ...	Ambler, ...	7.39	8.61	4.59	1.48	1.23	0.99	26 71	23 00	1416
779	Hubbard & Co., Baltimore, Md., ...	Stan'd Bone Super-Phosphate,	Turnpike Station,..	10.39	6.63	3.71	1.54	2.37	1.30	25 28	20 00	779
1229	" " "	Wheat Growers' Jewel, ...	Millville, ...	6.98	8.50	3.76	1.85	1.44	1.37	27 12	25 00	1229
689	M. P. Hubbard & Co., Baltimore, Md., ...	Farmers' Old Economy, ...	Stewartstown, ...	7.70	5.72	2.29	1.81	1.42	0.85	19 92	16 00	689
793	" " " "	Ammoni'd Bone and Potash,	Hanover, ...	7.78	6.88	2.51	1.02	1.82	0.69	21 28	19 00	793
1247	" " " "	Harvest King, ...	Kingwood, ...	7.50	6.83	2.50	1.53	1.40	1.43	23 55	20 50	1247
1173	Jarecki Chemical Co., Sandusky, Ohio, ...	Lake Erie Fish Guano, ...	Slippery Rock, ...	10.93	7.73	4.10	1.33	2.66	1.47	27 92	25 00	1173
1180	" " " "	Fish & Potash Grain Special,	Slippery Rock, ...	12.46	6.89	3.48	1.12	4.74	1.73	29 25	25 00	1180
1238	" " " "	O. K. Fertilizer, ...	Atchison, ...	2.98	3.55	4.37	0.86	0.56	0.65	17 62	15 00	1238
1240	" " " "	Lake Erie Fish Guano, ...	Atchison, ...	6.19	4.53	5.58	1.49	2.85	1.96	27 51	23 00	1240
783	J. A. Klinefelter, Glenville, Pa., ...	Special for Corn, Oats, etc., ..	Glenville, ...	5.83	3.96	3.69	1.11	1.04	0.77	18 25	18 00	783
1009	Lackawanna Fert. & Chem.Co., Moosic, Pa..	Moosic Phosphate, ...	Black Lick, ...	4.38	6.34	2.42	1.05	1.84	1.46	23 22	20 00	1009
1448	Lancaster Water Works, Lancaster, Pa., ..	Boiler Deposit, ...	Lancaster, ...	3.63	....	0.20	0.49	0.12	0.29	1 36	.....	1448
686	Lazaretto Guano Co., Baltimore, Md., ...	Retriever Animal Bone Phos.,	Delta, ...	8.77	7.80	4.16	3.14	4.21	2.01	32 44	21 00	686
597	Lister's Agri. Chem. Works, Newark, N. J.,	Success Fertilizer, ...	Franklin, ...	8.72	7.94	3.37	1.85	2.05	1.35	26 64	28 00	597
673	" " " "	Standard Phosphate, ...	Muddy Creek Forks,	10.74	9.66	2.95	1.48	2.08	2.18	31 06	26 00	673
1022	" " " "	Special Fertilizer for Wheat,	Saltsburg, ...	7.58	6.08	3.61	2.48	1.98	1.55	25 35	23 00	1022
1084	" " " "	U. S. Super-Phosphate, ...	Turbotville, ...	4.55	5.32	3.15	1.44	1.98	1.37	22 81	23 00	1084
1105	" " " "	Ammoniated Dissolved Phos..	Bloomsburg, ...	9.15	6.84	2.53	2.24	1.80	1.68	25.18	28 00	1105
1106	" " " "	Special Crop Producer, ...	Bloomsburg, ...	4.66	3.84	3.66	2.99	1.15	0.91	19 58	20 00	1106

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1116	Lister's Agri. Chem. Works, Newark, N. J.,	Harvest Queen Phosphate, ...	Linwood, ...	8.94	7.02	4.19	1.78	2.41	1.45	27 01	27 00	1116
1262	" " " "	Special Potato Fertilizer, ...	Mercersburg, ...	7.25	6.39	4.08	1.88	3.29	1.70	28 03	23 00	1262
1046	John A. Livers, Gettysburg, Pa., ...	Gold Dust Fertilizer, ...	Gettysburg, ...	5.12	1.73	3.94	2.23	1.48	0.96	17 32	20 00	1046
1032	Mapes' Formula & Peruv'n Guano Co., N.Y.,	Cereal Brand, ...	Shiremanstown, ...	7.32	4.68	2.63	2.30	3.52	2.22	26 00	28 00	1032
1033	" " " "	Complete Manure, A. Brand, ..	Shiremanstown, ...	7.26	4.92	4.23	3.66	3.67	2.80	31 08	35 00	1033
691	Noah Markle, Seitzland, Pa., ...	Ammoniated Bone Phosphate,	Seitzland, ...	10.19	3.58	3.75	2.31	2.63	1.33	22 16	20 00	691
626	Maryland Fertilizing Co., Baltimore, Md.,	Ammoniated Bone, ...	Huntingdon, ...	8.89	6.44	2.69	3.54	2.01	1.94	26 55	28 00	626
628	" " " "	Ammoniated O. K. Fertilizer,	Huntingdor, ...	9.74	6.25	2.40	1.72	2.14	1.08	22 38	21 00	628
615	McCalmont & Co., Bellefonte, Pa., ...	Champion Brand, ...	Loverville, ...	5.35	4.65	7.03	1.59	3.44	1.68	29 49	25 00	615
714	F. Mehring, Bruceville, Md., ...	Twenty-six Dollars Phosphate,	Biglerville, ...	10.34	9.11	3.89	4.66	1.27	1.22	28 71	23 00	714
565	Michigan Carbon Works, Detroit, Mich., ..	Homestead, A Bone Black Fer.,	Glade, ...	13.45	6.60	1.83	1.28	2.41	2.58	27 26	27 00	565
607	" " " " ..	Homestead, A Bone Black Fer.,	Union City, ...	8.70	9.67	1.24	1.17	2.33	2.49	30 20	27 00	607
1177	" " " " ..	Homestead, A Bone Black Fer.,	Slippery Rock, ...	7.39	8.68	2.40	1.07	2.84	2.34	30 58	27 00	1177
1220	" " " " ..	Homestead Potato Grower, ...	Harmony, ...	12.56	7.92	1.42	1.76	5.21	1.96	29 59	33 00	1220
1383	" " " " ..	Jarves' Drill Phosphate, ...	Slippery Rock, ...	4.29	6.51	2.17	1.09	0.78	1.42	21 66	23 00	1383
1494	" " " " ..	Homestead, A Bone Black Fer.,	Mt. Chestnut, ...	9.40	8.90	1.46	1.05	1.45	2.48	28 36	25 00	1494
679	Miller Fertilizer Co., Baltimore, Md., ...	Hustler Phosphate, ...	Muddy Creek Forks,	10.03	7.06	2.50	1.96	2.73	1.03	24 15	20 00	679

896	" " " "	W. G. Phosphate, ...	Aspers' Station, ...	6.82	5.79	2.33	1.54	1.73	0.50	14 22	18 00	896
1037	" " " "	St'd Super-Phosphate of Lime,	Dillsburg, ...	7.31	7.84	3.57	1.02	2.94	1.89	29 14	26 00	1037
1121	" " " "	Harvest Queen Phosphate, ...	Ogden, ...	7.19	9.10	2.15	1.38	2.44	1.22	26 35	26 00	1121
591	Milsom Rend'g & Fert. Co., Buffalo, N. Y.,	Buffalo Fertilizer, ...	Sandy Lake, ...	9.68	6.65	2.19	2.33	1.63	1.67	23 47	28 00	599
600	" " " "	Wheat, Oats and Barley Sp'l,	Sandy Lake, ...	7.52	7.74	2.16	2.48	2.11	1.20	24 85	26 00	600
601	" " " "	Potato, Hop & Tobacco Phos.,	Sandy Lake, ...	7.23	5.58	2.00	1.75	3.26	2.01	25 27	20 00	601
1029	" " " "	Buckwheat Special Fertilizer,	Indiana, ...	6.59	4.51	2.68	2.80	0.95	0.92	18 98	20 00	1029
1281	Monumental Chemical Co., Baltimore, Md.,	William Penn Crop Grower, ..	Toughkenamon, ...	6.85	3.87	3.56	1.76	1.09	0.94	18 97	18 00	1281
625	T. S. Moorehead, East Waterford, Pa., ...	Ammoniated Tuscarora Phos.,	Petersburg, ...	6.74	1.54	2.96	5.76	1.31	1.10	17 85	20 00	625
1511	" " " "	Ammoniated Tuscarora Phos.,	Mexico, ...	8.01	1.65	2.82	5.67	1.22	1.08	17 71	16 50	1511
1067	Niagara Fertilizer Works, Buffalo, N. Y.,	No. 1 Ammoniated Bone Fert.,	Hanover, ...	7.78	7.62	3.58	2.02	1.41	1.70	26 94	22 00	1067
1198	" " " "	Wheat and Corn Producer, ...	Murrinsville, ...	8.90	5.80	3.60	1.62	3.78	1.57	26 46	27 00	1198
666	North Western Fertilizer Co., Chicago, Ill.,	Bone and Potash, ...	Red Lion, ...	6.28	8.13	3.90	2.85	1.53	0.89	26 10	20 00	666
812	" " " "	Garden City Super-Phosphate,	Johnstown, ...	6.92	6.19	2.63	2.77	1.09	3.45	30 00	27 00	812
813	" " " "	Prairie Phosphate, ...	Johnstown, ...	6.06	4.89	2.98	5.69	0.67	2.26	25 48	25 00	813
814	" " " "	Ammoniated Dissolved Bone,	Johnstown, ...	6.55	6.24	2.72	2.33	1.03	3.72	30 66	27 00	814
827	" " " "	Twenty-six Dollars Phosphate,	Willmore, ...	5.25	5.18	3.22	3.63	0.88	3.62	30 03	25 00	827
1328	" " " "	H'shoe Brand Nat'l Bone Dust,	Nottingham, ...	6.08	5.96	4.01	3.30	1.12	2.75	29 20	25 00	1328
1150	Oakfield Fertilizer Co., Buffalo, N. Y., ...	High Farming Fertilizer, ...	Shepherdstown, ...	14.37	5.52	2.43	1.61	2.59	2.04	25 06	30 00	1150
1151	" " " "	Golden Sheaf Fertilizer, ...	Shepherdstown, ...	11.13	5.09	3.70	0.98	2.30	1.44	23 38	24 00	1151
1152	" " " "	Standard Fertilizer, ...	Shepherdstown, ...	7.85	7.44	3.25	1.76	2.08	2.58	29 98	33 00	1152
1381	" " " "	Great Value Fertilizer, ...	Slippery Rock, ...	12.18	3.93	3.86	1.69	1.20	1.19	20 10	21 00	1 81
1468	" " " "	Domestic Fertilizer, ...	Sugar Grove, ...	11.87	3.82	3.65	1.67	1.43	1.94	22.78	24 00	1468
1158	W. C. Owens, Phillipsburg, Pa., ...	Ammoniated Phosphate, ...	Phillipsburg, ...	8.29	5.47	4.06	2.63	2.42	1.02	23 68	25 00	1158
950	Pacific Guano Co., New York, ...	A No. 1 Phosphate, ...	Paxinos, ...	13.65	4.25	4.35	2.72	2.11	1.28	23 17	21 00	950

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
951	Pacific Guano Co., New York, ...	Nobsque Guano, ...	Paxinos, ...	14.14	4.27	4.77	2.53	2.11	1.32	23 58	23 00	951
554	Patapsco Guano Co.. Baltimore, Md., ...	Grain and Grass Producer, ...	Somerset, ...	16.55	7.28	2.59	1.55	2.51	0.85	23 40	23 00	554
1099	" " " "	Coon Brand Guano, ...	Pottsgrove, ...	11.15	6.83	3.17	1.25	3.06	0.92	24 15	18 00	1099
1233	" " " "	Special Wheat Compound, ...	Greenwood.	7.76	8.54	2.85	2.56	2.70	1.90	29 64	24 00	1233
1034	Penn. Am'nia & Fert. Co., Harrisburg, Pa.,	Capital Bone Super-Phosphate,	Bowmansdale, ...	5.79	8.56	2.57	1.75	2.32	2.69	31 21	30 00	1034
1035	" " " "	Dauphin Brand, ...	Shiremanstown, ...	7.64	7.64	3.37	1.94	2.62	1.47	27 14	24 00	1035
582	Moro Phillips Chem. Co., Philadelphia, Pa.,	Farmers' Phosphate, ...	Strausstown, ...	9.60	6.23	2.68	1.65	1.78	0.76	21 09	18 00	582
583	" " " "	C. & G. Complete Fertilizer, ..	Berks, ...	8.96	5.35	2.32	1.98	3.12	1.12	22 23	20 00	583
1103	" " " "	C. & G. Complete Fertilizer, ..	Pottsgrove, ...	10.95	5.30	1.92	1.70	1.52	1.06	19 64	19 50	1103
622	Piedmont—Mt. Airy Guano Co., Balti., Md.,	Piedm't Pure Raw Bone Phos.,	Petersburg, ...	6.68	3.44	5.36	2.33	1.19	0.98	21 16	22 00	622
623	" " " "	Am. Bone, Grain & Grass Pro.,	Petersburg, ...	11.18	7.44	3.55	1.16	1.96	0.77	23 68	22 00	623
1376	Pittsburg Provision Co., Pittsburg, Pa., ..	Keystone Fertilizer, ...	Butler, ...	3.07	3.46	4.58	3.15	0.90	1.70	22 78	26 00	1376
653	R. H. Pollock, Baltimore, Md., ...	Sp'l Potato & Tobacco Fert.,	East Berlin, ...	8.48	7.76	1.82	2.95	4.60	1.69	28 95	24 00	653
657	" " "	Superior Corn & Tomato Fert.,	Red Lion, ...	10.58	7.58	2.93	1.66	2.55	1.43	26 34	22 00	657
659	" " "	Ammoniated Bone Phosphate,	Red Lion, ...	13.11	8.11	2.55	1.90	2.18	1.72	27 15	24 00	659
1318	" " "	Special Wheat Grower, ...	Nottingham, ...	11.33	7.65	2.34	2.79	2.22	1.09	24 74	22 00	1318
871	Powell Fert. & Chem. Co., Baltimore, Md.,	Red Bag Brand, ...	Mt. Pleasant.	4.57	2.89	5.66	4.59	2.69	1.01	23 49	18 00	871

1297	Pugh & Lyon, Oxford, Pa.,	Bone Phosphate,	Oxford,	6.59	2.74	6.77	1.48	5.06	2.61	31 05	25 00	1297
865	Quinnipiac Co., New York,	Climax Phosphate,	Newry,	11.39	2.93	5.99	3.79	2.16	1.44	24 45	20 00	865
909	" " "	Ammoniated Dissolved Bone,	Graythorn,	7.55	5.73	4.39	3.66	2.10	2.09	28 48	28 00	909
937	" " "	Mohawk Fertilizer,	Red Top,	11.60	2.13	5.14	3.17	1.06	1.05	19 60	20 50	937
889	Ramsburg Fertilizer Co., Frederick, Md.,	Excelsior Plant Food,	New Oxford,	8.12	8.79	3.28	4.87	0.79	1.91	29 55	24 00	889
1060	" " " "	Alkaline Phospho Potassium,	Littlestown,	11.16	5.83	5.92	2.47	1.74	0.79	24 97	18 00	1060
801	Rasin Fertilizer Co., Baltimore, Md.,	Ammoniated Super-Phosphate,	Carrolltown,	12.01	7.44	4.47	2.02	1.17	1.04	25 38	20 50	801
802	" " " "	Empire Guano,	Carrolltown,	11.87	6.38	2.79	3.03	1.70	2.17	26 71	25 00	802
1079	" " " "	Ammoniated Alkaline Phos.,	Middleburg,	11.18	5.32	4.41	2.86	1.49	1.77	25 62	19 00	1079
664	John S. Reese & Co., Baltimore, Md.,	May Flower Brand,	Red Lion,	8.80	0.81	9.60	1.28	2.03	1.82	25 87	23 00	664
1409	" " " "	Amm. Bone Phosphate Mixt're,	Windsor Castle,	10.34	7.96	2.85	2.21	1.98	1.41	26 24	22 00	1409
1449	" " " "	Amm. Bone Phosphate Mixt're,	Harrisburg,	11.41	2.10	10.13	1.50	2.21	0.93	25 64	22 00	1449
1473	Riverside Acid Works, Warren, Pa.,	Old Gold Brand,	Warren,	8.51	9.30	1.67	0.62	2.06	3.13	31 94	36 00	1473
1474	" " " "	Rich Acre Brand,	Warren,	9.85	7.28	1.82	0.57	1.57	1.94	24 72	30 00	1474
1475	" " " "	Harvest Moon Brand,	Warren,	5.91	5.77	3.29	0.36	1.23	1.60	22 95	25 00	1475
1325	Scott Fertilizer Co., Elkton, Md.,	Elk Head Super-Phosphate,	Nottingham,	8.21	7.84	3.66	1.30	1.05	0.91	23 94	21 00	1325
1408	" " " "	Sure Growth Super-Phosphate,	Windsor Castle,	10.14	6.60	3.25	2.68	2.74	1.99	28 00	22 00	1408
825	Sharpless & Carpenter, Philadelphia, Pa.,	No. 1 Bone Phosphate,	Johnstown,	9.95	7.25	2.36	1.97	1.96	1.69	25 58	26 00	825
1500	" " " "	Grain and Grass Fertilizer,	Ambler,	5.40	7.32	2.73	1.91	1.20	0.60	21 63	20 00	1500
775	G. W. Sharretts & Co., Baltimore, Md.,	Standard Guano,	New Freedom,	11.41	5.50	2.48	2.34	1.44	1.59	22 68	22 00	775
1096	" " " "	Fish, Rock and Potash,	Mooresburg,	6.90	2.21	3.90	0.88	0.67	0.32	10 88	17 00	1096
1431	M. L. Shoemaker & Co., Philadelphia, Pa.,	Swift-Sure, for General Use,	Lansdale,	12.27	8.56	2.53	2.95	4.47	2.60	33 72	31 00	1431
1436	" " " "	Echo Super-Phosphate,	Doylestown,	4.14	3.75	5.53	4.77	2.13	1.29	24 99	21 00	1436
1059	Slingluff & Co., Baltimore, Md.,	Universal Guano,	Littlestown,	5.40	7.84	4.08	1.56	1.67	0.85	25 08	20 00	1059
1147	Standard Fertilizer Co., Boston, Mass.,	Standard Guano,	Chambersburg,	13.00	3.48	4.83	3.08	2.10	1.26	22 77	21 00	1147

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1175	Standard Fertilizer Co., Boston, Mass., ...	Standard A. Brand, ...	Slippery Rock, ...	8.35	4.77	4.31	2.28	1.16	1.48	23 23	24 00	1175
670	Susquehanna Fertilizer Co., Baltimore, Md.,	XXV Phosphate, ...	Windsor Station, ..	9.63	6.98	2.92	1.67	1.41	1.12	23 12	20 50	670
709	" " " "	Susquehanna Crop Grower, ...	Biglerville, ...	7.96	2.19	6.52	4.21	1.08	0.89	21 33	18 00	709
974	" " " "	Susquehanna Bone Phosphate,	Mifflinburg, ...	10.02	7.45	3.67	2.69	2.31	2.07	29 29	27 00	974
1127	" " " "	Pure Bone Phosphate, ...	Kelton, ...	4.90	6.58	5.73	5.46	1.80	1.57	29 72	25 00	1127
1128	" " " "	Ammoniated Bone Phosphate,	Kelton, ...	9.51	7.28	3.68	2.55	2.33	1.97	28 74	21 60	1128
591	I. P. Thomas & Son Co., Philadelphia, Pa.,	Normal Bone Phosphate, ...	Shartlesville, ...	8.57	8.59	3.09	2.18	2.03	1.42	27 43	25 00	591
635	" " " "	Potato Manure, ...	Orbisonia, ...	7.27	6.76	2.19	1.93	6.96	3.25	35 38	34 00	635
1051	" " " "	Improved Super-Phosphate, ..	Littlestown, ...	10.98	7.16	2.81	2.02	1.79	0.95	23 32	20 00	1051
1410	" " " "	Normal Bone Phosphate, ...	Windsor Castle, ...	11.07	1.65	10.64	0.95	3.82	0.94	27 12	24 00	1410
1266	D. A. Thomas, Hagerstown, Md., ...	Bone Mixture, ...	Greencastle, ...	10.03	8.61	1.85	1.88	2.21	1.78	27 31	20 00	1266
1278	Tygert—Allen Fert. Co., Philadelphia, Pa.,	Star Bone Phosphate, ...	Toughkenamon, ...	8.39	8.29	1.89	1.42	2.66	1.99	27 90	25 00	1278
1342	" " " "	Ammoniated Bone Phosphate,	Everett, ...	6.10	5.40	2.54	1.56	1.53	1.15	20 88	24 00	1342
1429	" " " "	Azotized Dissolved Bone, ...	Gwynedd, ...	8.68	5.26	2.42	1.56	2.11	1.05	20 82	25 00	1429
786	Virginia—Carolina Chem.Co.,Richmond,Va.,	Special Compound for Wheat,	Hanover, ...	8.77	6.69	2.52	1.45	1.08	0.97	21 32	18 00	786
722	Joshua Walker, Baltimore, Md., ...	Old Pittsburg Ammo'ted Bone,	McKnightstown, ..	10.94	5.38	3.74	3.04	1.67	2.15	26 44	20 75	722
1430	F. K. Walt Co., Pennsburg, Pa., ...	XX Flesh Fertilizer, ...	Lansdale, ...	8.22	5.63	2.78	1.68	2.49	1.19	22 75	25 00	1430

1133	M. E. Wheeler & Co., Rutland, Vt., ...	Royal Wheat Grower, ...	New London, ...	8.68	7.85	1.23	1.69	2.35	0.99	22 93	20 00	1133
562	Williams & Clark Fertilizer Co., New York,	Universal Am. Dissolved Bone,	Somerset, ...	14 58	5.49	4.15	3.41	2.17	2.01	27 45	28 00	562
911	" " " "	Peach Tree Fertilizer, ...	Leesburg, ...	3.87	1.06	2.79	12.14	4.34	1.83	27 39	33 00	911
868	Robert A. Wooldridge Co., Baltimore, Md.,	Little Giant, ...	Stahlstown, ...	9.93	7.76	2.72	1.34	2.32	1.00	24 37	21 00	868
869	" " " "	Triumph Brand, ...	Stahlstown, ...	9.02	6.35	2.39	1.38	4.53	1.31	25 95	25 00	869
1324	" " " "	Kangaroo Komplete Komp'd,	Nottingham, ...	8.97	6.28	2.41	2.51	2.86	1.71	25 59	24 00	1324
742	Joseph Wolf, Abbottstown, Pa., ...	Spring Run Raw Bone Phos.,	Abbottstown, ...	4.94	2.26	4.34	1.85	2.57	1.05	19 77	22 00	742
744	" " "	Fifteen Dollars Phosphate, ...	Abbottstown, ...	9.77	3.94	2.51	0.87	1.62	0.41	12 13	15 00	744
698	York Chemical Works, York, Pa., ...	Am. Bone and Potash Phos.,	Abbottstown, ...	8.32	4.75	5.43	2.76	3.38	0.70	24 56	20 00	698
751	" " "	Pure Am. Raw Bone Phos.,	York, ...	7.11	5.71	4.85	3.72	1.48	1.22	25 20	24 00	751
638	The Zell Guano Co., Baltimore, Md., ...	Calvert Guano, ...	Winfield, ...	8.16	8.65	2.43	2.43	1.73	0.83	24 67	19 50	638
640	" " " "	Economizer, ...	Winfield, ...	9.78	7.10	3.76	2.92	1.40	0.93	24 39	20 00	640
641	" " " "	The Little Giant, ...	Winfield, ...	9.83	6.58	2.85	1.19	1.03	1.25	22 39	17 00	641
1242	" " " "	Bone Super-Phosphate, ...	Canonsburg, ...	9.93	8.18	3.03	0.55	2.37	1.86	27 85	26 00	1242

ALKALINE FERTILIZERS.

Containing Phosphoric Acid and Potash.

From Samples Selected from August 1, 1897, to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1012	Baltimore Guano Co., Baltimore, Md., ...	Farmers' Dissolved Bone, ...	Livermore, ...	7.56	9.62	5.01	1.28	2.12	$17 05	$12 25	1012
1483	" " " "	Farmers' Alkaline Bone, ...	Zelienople, ...	12.91	1.42	8.19	1.33	2.18	13 20	28 00	1483
1268	Baltimore Pulverizing Co., Baltimore, Md.,	Concentrated Bone & Pot. Mix.,	Altenwalt, ...	12.74	6.43	2.92	0.79	4.17	15 56	15 00	1268
1265	D. Blocher & Co., Gettysburg, Pa., ...	Special Mixture, ...	Greencastle, ...	7.92	6.41	4.88	1.08	2.54	15 09	16 00	1265
1359	Bowker Fertilizer Co., Boston and N. Y.,	Harvest Bone, with Potash, ...	New Castle, ...	6.01	4.02	7.00	4.79	1.03	15 35	20 00	1359
788	Chemical Co. of Canton, Baltimore, Md., ..	Soluble Alkaline Bone, ...	Hanover, ...	7.97	8.34	4.62	2.14	2.17	16 28	17 00	788
1450	R. L. Christie & Co., Baltimore, Md., ...	Soluble Bone and Potash, ...	Tayloria, ...	9.80	7.27	4.45	1.68	2.89	16 04	12 00	1450
904	Clark's Cove Fertilizer Co., New York, ...	Triumph Bone and Potash, ...	Graythorn, ...	8.37	9.49	2.03	2.35	2.40	15 88	19 00	904
1298	Josiah Cope & Co., Lincoln University, Pa.,	Soluble Bone and Potash, ...	Oxford, ...	11.41	8.29	4.14	1.49	2.48	16 10	14 00	1298
1108	J. A. Cranston Co., Wilmington, Delaware,	Horseshoe Soluble Bone & Pot.,	Bloomsburg, ...	11.42	2.75	6.54	4.19	2.17	14 16	18 00	1108
618	Louis F. Detrick, Baltimore, Md., ...	Bone & Potash, 16x4 Mixture,	Loveville, ...	13.11	5.97	4.35	4.03	2.36	15 31	18 00	618
978	" " " "	Bone and Potash Mixture, ...	Mifflinburg.	11 13	6.01	4.67	3.93	2.52	15 64	16 00	978
840	Detrick Fert. & Chem. Co., Baltimore, Md.,	P. & B. Special Fertilizer, ...	Tyrone, ...	9.71	8.22	2.74	1.57	3.64	16 51	17 00	840
1130	James G. Downward & Co., Coatesville, Pa.,	Soluble Bone and Potash, ...	Kelton, ...	12.00	8.57	1.80	0.56	3.65	16 10	18 00	1130

718	Eureka Fertilizer Co., Perryville, Md., ...	Alkaline Bone and Potash, ...	Fairfield, ...	8.76	6.88	4.18	2.62	2.69	15 74	15 00	718
833	" " " "	Alkaline Bone and Potash, ...	Bradley Junction, ...	11.15	6.56	4.27	3.25	2.37	15 42	16 00	833
737	Farmers' Fertilizer Co., Westminster, Md.,	P. A. & P. Phosphate, ...	New Oxford, ...	8.75	9.16	3.85	0.93	3.04	16 95	16 00	737
1457	W. S. Farmer & Co., Baltimore, Md., ...	B. & P. Fertilizer, ...	Peach Bottom, ...	9.02	8.03	4.67	2.22	1.02	14 86	12 00	1457
589	Great Eastern Fertilizer Co., New York, ..	Soluble Bone and Potash, ...	Hummelstown, ...	11.53	6.51	4.95	1.76	2.12	14 96	17 00	589
794	M. P. Hubbard & Co., Baltimore, Md., ...	Soluble Bone and Potash, ...	Hanover, ...	11.52	7.47	2.76	0.65	2.03	13 92	15 00	794
1504	Keystone Chem. Mfg. Co., Camden, N. J.,	Soluble Bone and Potash, ...	Fort Washington, ...	13.27	5.88	5.21	1.89	1.95	14 56	22 00	1504
784	Maryland Fertilizing Co., Baltimore, Md.,	Alkaline Bone, ...	Hanover, ...	11.88	8.20	4.19	1.75	2.81	16.49	20 00	784
854	" " " "	Linden Super-Phosphate, ...	Curryville, ...	9.26	9.13	3.46	2.33	1.85	15 90	17 00	854
857	" " " "	Bone Super-Phosphate, ...	Curryville, ...	8.03	9.70	2.78	1.12	1.80	15 40	15 00	857
1329	Monumental Chemical Co., Baltimore, Md.,	Soluble Bone Phos. & Potash,	Nottingham, ...	7.28	5.19	2.42	0.70	8.46	18 97	13 00	1329
1255	G. Ober & Sons' Co., Baltimore, Md., ...	Dis. Bone Phosphate & Potash,	Chambersburg, ...	10.80	9.85	3.24	0.65	2.55	16 45	13 00	1255
990	Pacific Guano Co., New York, ...	Dissolved Bone and Potash, ...	Petersburg, ...	8.50	8.52	2.77	1.66	2.19	15 19	16 00	990
851	Packers' Union Fertilizer Co., New York, ..	H. G. Wheat and Clover Fer.,	McKee, ...	6.86	9.21	3.07	0.71	2.17	15 46	17 00	851
914	Moro Philips Chem. Co., Philadelphia, Pa.,	Soluble Bone Phosphate, ...	Shippensburg, ...	5.82	10.82	4.17	1.43	2.22	17 84	12 50	914
915	" " " "	Wheat Special, ...	Shippensburg, ...	10.86	5.86	2.95	1.72	2.12	13 29	17 00	915
1070	" " " "	Alkaline Bone, ...	Shamokin Dam, ...	9.10	7.78	4.33	1.71	2.54	15 97	16 00	1070
992	Piedmont—Mt. Airy Guano Co., Balti., Md.,	Dissolved Bone Phosphate, ...	Petersburg, ...	7.76	6.89	3.99	1.53	1.28	13 71	17 00	992
728	R. H. Pollock, Baltimore, Md., ...	Alkaline Bone Phosphate, ...	Bigierville, ...	10 22	7.08	3.64	0.45	1.33	13 30	13 50	728
1317	" " "	Victor Bone Phosphate, ...	Nottingham, ...	13.10	7.48	3.05	2.77	1.22	13.93	18 00	1317
864	Quinnipiac Co., New York, ...	Dissolved Bone and Potash, ...	Newry, ...	6.82	8.94	2.67	2.44	2.46	15 98	14 00	864
1149	Standard Fertilizer Co., Boston, Mass, ...	Bone and Potash, ...	Chambersburg, ...	4.33	4.85	4.48	3.91	2.19	14 64	14 00	1149
1176	" " " "	Bone and Potash, ...	Slippery Rock, ...	10.87	5.34	4.89	1.98	2.79	14 92	26 00	1176
712	Susquehanna Fertiliz r Co., Baltimore, Md.,	Soluble Bone and Potash, ...	Biglerville, ...	11.56	1.43	9.14	2.33	2.16	14 10	14 00	712

ALKALINE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
590	I. P. Thomas & Son Co., Philadelphia, Pa.,	Alkaline Bone.	Shartlesville,	5.95	8.69	2.96	2.31	2.04	15 49	15 50	590
1225	Tygert—Allen Fert. Co., Philadelphia, Pa.,	Star Soluble Bone and Potash,	Millville,	7.31	8.01	3.15	1.17	2.27	14 92	22 00	1225
1246	" " " "	Allen's Alkaline Bone Phos.,	Somerset,	5.83	8.17	3.41	0.80	2.42	15 22	19 00	1246
785	Virginia—Carolina Chem.Co., Richmond, Va.,	Standard Bone and Potash,	Hanover,	10.62	7.11	3.14	1.28	2.10	14 14	15 00	785
724	Joshua Walker, Baltimore, Md.,	Victoria Bone,	McKnightstown,	11.76	7.54	5.62	1.47	1.28	15 16	12 50	724
1171	M. E. Wheeler & Co., Rutland, Vt.,	Grass and Oats Fertilizer,	New Washington,	7.96	8.89	3.10	0.59	2.42	15 48	20 00	1171
1209	" " " "	Fruit Grower,	Jacksville,	8.59	5.75	4.71	0.75	9.03	21 42	23 00	1209
1017	Williams & Clark Fertilizer Co., New York,	Dissolved Bone and Potash,	Saltsburg,	7.66	8.96	2.75	1.53	2.27	15 50	20 00	1017
902	Robt. A. Wooldridge Fert. Co., Baltimore, Md.,	Bone and Potash Mixture,	Hay's Grove,	9.45	7.34	4.31	1.07	1.95	14 77	16 65	902
743	Joseph Wolf, Abbottstown, Pa.,	Thirteen Dollars Phosphate,	Abbottstown,	8.56	4.59	3.73	0.45	1.62	11 18	13 00	743
571	Zell Guano Co., Baltimore, Md.,	Electric Phosphate,	Sipesville,	12.86	8.87	2.67	0.93	1.71	14 55	20 00	571
704	" " "	Dis. Bone Phosphate, with Pot.,	Table Rock,	10.97	10.87	3.48	1.15	0.85	15 66	13 00	704

DISSOLVED BONE FERTILIZERS.

Containing Phosphoric Acid and Nitrogen.

From Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1375	Armour Fertilizer Works, Chicago, Ill., ..	Bone and Blood, ...	Butler, ...	4.95	0.28	4.07	5.51	6.98	$35 82	$30 00	1375
682	Baugh & Sons' Co., Philadelphia, Pa., ...	Dissolved Animal Bone, ...	Delta, ...	4.71	2.33	12.07	4.30	2.82	32 24	27 00	682
575	Bowker Fertilizer Co., Boston and N. Y.,	Ammoniated O. I. O. Phos., ..	Upper Bern, ...	4.30	8.53	4.64	2.00	0.85	16 89	13 00	575
828	Cambria Fertilizer Co., Johnstown, Pa., ..	Lion Ammoniated Bone Phos.,	Wilmore, ...	4.24	5.52	6.15	3.42	2.33	28 64	29 00	828
1052	Chemical Co. of Canton, Baltimore, Md.,	Dissolved Ammoniated Bone, ..	Littlestown, ...	7.14	7.91	2.86	3.27	1.84	24 85	23 00	1052
1320	E. A. Clendennin & Bro., Colora. Md., ...	Pure Dissolved Bone, ...	Nottingham, ...	7.46	6.14	5.48	3.96	1.75	25 70	25 00	1320
878	Cleveland Dryer Co., Cleveland, O., ...	Forest City Bone Phosphate, ..	Greensboro, ...	8.95	6.84	2.47	2.86	2.32	24 28	30 00	878
879	" " " "	Buckeye Ammoniated Bone, ..	Greensboro, ...	9.97	7.27	2.39	2.96	1.96	23 62	30 00	879
885	" " " "	Ohio Seed Maker, ...	Greensboro, ...	8.43	5.95	3.49	3.55	1.18	22 20	26 00	885
1366	" " " "	Square Bone, ...	New Sheffield, ...	2.85	5.96	4.98	5.88	2.79	29 28	29 00	1366
1487	" " " "	Buckeye Ammoniated Bone, ..	Zelienople, ...	5.33	5.79	4.27	4.86	1.79	23 66	28 00	1487
917	Cumberland County Fert. Co., Carlisle, Pa.,	Dissolved Animal Bone, ...	Greason, ...	3.69	4.50	5.01	3.01	2.30	24 31	28 00	917
1259	Detrick Fert. & Chem. Co., Baltimore, Md.,	Wheat Fertilizer, ...	Williamson, ...	4.89	10.19	1.52	1.93	1.17	24 46	21 00	1259
1094	S. M. Hess & Bro., Philadelphia, Pa., ...	Keystone Bone Phosphate, ...	Washingtonville, ...	5.93	7.83	3.12	1.94	0.99	23 58	18 00	1094

DISSOLVED BONE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1501	Keystone Chem. Mfg. Co., Camden, N. J.,	Ammoniated Bone, ...	Fort Washington, ...	6.06	6.69	6.38	1.53	1.71	27 36	25 00	1501
715	F. Mehring, Bruceville, Md., ...	Dissolved Raw Bone, ...	Biglerville, ...	3.12	4.74	13.56	3.27	1.24	31 50	30 00	715
897	Miller Fertilizer Co., Baltimore, Md., ...	Dissolved Raw Bone, ...	Asper's Station, ...	4.02	8.25	2.36	4.77	2.37	27 12	28 00	897
667	North Western Fertilizer Co., Chicago, Ill.,	Horseshoe Acidulated Bone, ...	Red Lion, ...	7.25	7.97	4.14	3.19	0.96	23 41	20 00	667
1025	R. H. Pollock, Baltimore, Md., ...	Dissolved Animal Bone, ...	Indiana, ...	8.31	8.32	4.59	3.38	2.28	28 04	29 00	1025
1264	Ramsberg Fertilizer Co., Frederick Md., ..	Dissolved Animal Bone, ...	Greencastle, ...	5.62	9.31	3.73	6.25	1.75	28 86	24 00	1264
894	Rasin Fertilizer Co., Baltimore, Md., ...	Dissolved Bone, ...	Asper's Station, ...	7.34	8.37	3.50	2.65	2.20	27 09	21 50	894
1049	Susquehanna Fertilizer Co., Baltimore, Md.,	Pure Dissolved Bone, ...	Littlestown, ...	5.37	8.18	3.07	7.00	2.11	29 30	27 00	1049

GROUND BONE.

Containing Phosphoric Acid and Nitrogen.

From Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
567	Armour Fertilizer Works, Chicago, Ill., ..	Bone Meal, ...	Addison, ...	4.86	26.94	2.85	$30 84	$30 00	567
661	Baugh & Sons' Co., Philadelphia, Pa., ...	Bone Meal, ...	Red Lion, ...	7.51	22.91	3.96	30 37	27 00	661
1280	" " " "	Bone Meal, ...	Toughkenamon, ...	7.25	23.04	3.95	30 88	25 00	1280
1288	" " " "	Domestic Animal Bone Dust,	Rosedale, ...	4.90	28.36	2.24	30 44	22 00	1288
1120	Albert Baxter, Chester, Pa., ...	Pure Ground Bone, ...	Ogden, ...	4.96	23.98	3.38	28 04	26 00	1120
1291	The Berg Co., Philadelphia, Pa., ...	Raw Bone, Fine, ...	Fairville, ...	7.21	22.95	4.15	26 22	25 00	1291
796	E. K. Bollinger, Sells' Station, Pa., ...	Raw Bone Meal, ...	Hanover, ...	6.07	22.80	4.13	29 91	27 00	796
829	Cambria Fertilizer Co., Johnstown, Pa., ..	Pure Fine Ground Bone Dust,	Willmore, ...	7.10	22.72	3.96	27 01	30 00	829
1252	Chemical Co. of Canton, Baltimore, Md.,	Pure Ground Animal Bone, ...	Chambersburg, ...	5.80	20.14	3.19	27 81	30 00	1252
701	Claremont Abbatoir Co., Baltimore, Md.,	Pure Ground Bone, ...	New Oxford, ...	7.38	23 95	4.02	28 52	27 00	701
882	Cleveland Dryer Co., Cleveland, Ohio, ...	Superior Bone Meal, ...	Greensboro, ...	5.58	22.23	3.41	27 88	32 00	882
1293	Josiah Cope & Co., Lincoln University, Pa.,	Pure Steamed Bone, ...	Fairville, ...	4.30	29.87	1.83	30 94	23 00	1293

GROUND BONE—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1207	Crocker Fert. & Chem. Co., Buffalo, N. Y.,	Bone Meal,	Jacksville,	4.40	27.39	2.71	30 57	27 00	1207
1365	" " " "	Ground Bone Meal,	Woodlawn,	3.58	26.31	2.99	31 53	28 00	1365
916	Cumberland County Fert. Co., Carlisle, Pa.,	Pure Raw Animal Bone,	Greason,	6.78	20.37	3.95	25 76	30 00	916
1214	Cumberland Bone Phos. Co., Boston, Mass.,	Extra Fine Ground Bone,	Middle Lancaster,	7.06	15.10	2.19	20 23	30 00	1214
836	Eureka Fertilizer Co., Perryville, Md.,	Bone Meal,	Bradley Junction,	3.85	26.65	2.83	29 44	27 00	836
1249	" " " "	Ground Raw Bone,	West Chester,	5.97	22.81	4.21	28 39	26 00	1249
1251	" " " "	Fine Ground Raw Bone,	Londongrove,	4.68	25.69	3.44	31 40	26 00	1251
1507	Joseph R. Gawthrop, Kennett Square, Pa.,	Fine Ground Bone,	Concord,	5.04	19.88	3.53	26 56	25 00	1507
931	Great Eastern Fertilizer Co., Rutland, Vt.,	Pure Steamed Bone,	Mechanicsburg,	3.65	30.66	2.03	31 83	28 00	931
932	" " " "	Ground Bone,	Mechanicsburg,	4.44	26.20	2.65	31 02	28 00	932
1253	S. M. Hess & Bro., Philadelphia, Pa.,	Ground Bone,	Chambersburg,	5.29	26.41	2.47	30 48	29 00	1253
1230	Hubbard & Co., Baltimore, Md.,	Pure Raw Bone,	Millville,	7.08	23.69	3.64	27 60	30 00	1230
685	Lazaretto Guano Co., Baltimore, Md.,	Pure Ground Animal Bone,	Delta,	7.36	23.30	4.10	27 03	25 00	685
1027	Lister's Agr'l Chem. Works, Newark, N. J.,	Pure Raw Bone Meal,	Indiana,	3.94	24.71	2.90	28 35	28 00	1027
1326	" " " "	Celebrated Ground Bone,	Nottingham,	3.62	14.87	3.21	20 56	24 00	1326
692	Noah Markle, Seitzland, Pa.,	Pure Fine Ground Bone,	Seitzland,	7.56	19.58	5.03	26 35	25 00	692
564	Michigan Carbon Works, Detroit, Mich.,	Dessicated Bone,	Glade,	3.62	31 22	1.35	31 72	24 00	564

598	Milson Rend'g & Fert. Co., Buffalo, N. Y.,	Bone Meal,	Sandy Lake,	3.95	20.31	2.54	25 08	34 00	598
568	North Western Fert. Co., Chicago, Ill.,	Raw Bone,	Somerfield.	6.56	22.96	3.86	29 94	30 00	568
646	Packers' Union Fertilizer Co., New York,	Pure Raw Bone,	Lewisburg,	7.01	21.71	3.98	26 92	28 00	646
647	" " " "	Tankage,	Lewisburg,	7.90	9.41	7.14	26 38	23 00	647
1295	Pugh & Lyon, Oxford, Pa.,	Ground Raw Bone,	Oxford,	6.29	22.98	4.13	28 89	26 00	1295
886	Pittsburg Provision Co., Pittsburg, Pa.,	Butchers' Ground Bone,	Claysville,	3.44	19.31	3.92	27 56	25 00	886
1400	" " " "	No. 1. Pure Raw Bone Meal,	Pittsburg,	5.06	26.34	3.07	29 38	30 00	1400
1026	R. H. Pollock, Baltimore, Md.,	Soft Ground Bone.	Indiana,	6.17	16.36	3.02	22 20	29 00	1026
1159	J. Pie & Co., Osceola; Pa.,	Pure Ground Bone,	Osceola,	6.07	23.66	3.91	27 97	28 00	1159
939	Quinnipiac Co., New York,	Uncas Bone Meal,	Red Top,	2.70	17.20	1.67	20 82	26 00	939
1340	Sharpless & Carpenter, Philadelphia, Pa.,	Pure Bone Meal,	Everett,	6.64	22.91	2.84	28 06	29 00	1340
1141	M. L. Shoemaker & Co., Philadelphia. Pa.,	Pure Raw Bone Meal.	Elk View,	6.73	23.23	4.30	30 48	25 00	1141
1495	John Straining, Harrisburg, Pa.,	Bone and Meat.	Harrisburg.	5.21	3.51	1.07	8 35	15 00	1495
1050	Susquehanna Fertilizer Co., Baltimore, Md.,	Pure Ground Bone,	Littlestown,	7.67	23.48	3.87	28 89	27 00	1050
606	Swift & Co., Chicago, Illinois.	Raw Bone Meal,	Union City,	6.39	25.43	3.89	30 76	28 00	606
1124	" " "	Ground Steamed Bone,	Ogden,	4.89	25.87	3.56	31 27	26 00	1124
1167	Tygert—Allen Fert. Co., Philadephia. Pa.,	Prairie Bone Meal.	Grampian.	6.27	18.87	3.03	24 18	30 00	1167
1143	Emil Wahl. Philadelphia. Pa.,	Button Bone Dust,	West Grove,	7.46	27.06	3.52	31 86	25 00	1143
1423	" " "	Pure Bone,	Gwynedd,	7.78	26.86	3.57	30 58	32 00	1423
608	Walker, Stratman & Co., Pittsburg, Pa.,	Butchers' Bone Meal,	Union City,	4.34	15.88	3.02	22 35	28 00	608
1389	" " " "	Welcome Br'd Pure Raw Bone,	Pittsburg.	5.52	23.67	3.81	30 55	28 00	1389
1134	M. E. Wheeler & Co., Rutland, Vt.,	Pure Ground Bone.	New London,	5.50	20.14	3.18	25 10	26 00	1134
1053	Zell Guano Co., Baltimore, Md.,	Pure Ground Raw Bone.	Littlestown,	6.75	19.10	5.35	29 86	28 00	1053

ACIDULATED SOUTH CAROLINA ROCK.

Containing Phosphoric Acid Only.

From Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Total phosphoric acid.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
876	American Fert. Co., Washington, D. C.,	Natural Plant Food, ...	West Newton, ...	3.30	.....	2.63	21.65	24.28	$12 60	$16 00	876
956	R. S. Aucker, Shamokin, Pa., ...	High Grade Acid Phosphate, ..	Snydertown, ...	8.52	10.44	5.57	0.57	16.58	14 29	12 00	956
1335	U. & A. C. Blackburn, Fishertown, Pa., ..	Super-Phosphate, ...	Schellsburg, ...	8.96	10.72	4.67	0.57	15.96	13 94	13 00	1335
980	D. Blocher & Co., Gettysburg, Pa., ...	Dissolved S. C. Phosphate, ...	Three Springs, ...	5.52	13.22	4.44	0.38	18.04	15 52	13 00	980
1349	" " "	Dissolved Bone Phosphate, ...	Everett, ...	5.30	13.13	2.89	1.63	17.65	14 98	11 00	1349
643	Bowker Fertilizer Co., Boston and N. Y.,	Super-Phosphate, ...	Winfield, ...	5.86	9.43	4.86	2.78	17.07	13 92	17 00	643
821	Bradley Fertilizer Co., Boston, Mass., ...	Dissolved Bone, ...	Johnstown, ...	5.82	8.03	5.53	1.90	15.46	12 98	17 00	821
1111	" " " "	Dissolved Bone, ...	Watsontown, ...	8.21	5.99	6.45	2.62	15.06	12 53	15 00	1111
1168	" " " "	Acid Phosphate, ...	Grampian, ...	3.36	9.34	3.35	0.46	13.15	12 12	15 00	1168
1039	A. R. Brodbeck, Hanover, Pa., ...	Soluble Bone, ...	Dillsburg, ...	5.32	10.78	6.00	0.66	17.44	14 82	16 00	1039
745	S. B. Brodbeck, Brodbecks', Pa., ...	De C. Ruth's Dis. Bone Phos.,	York, ...	7.95	11.05	4.76	1.00	16.81	14 37	12 50	745
630	Chemical Co. of Canton, Baltimore, Md.,	Baker's Dis. Bone Phosphate,	Shade Gap, ...	8.84	10.04	5.31	0.97	16.32	13 96	14 00	630
884	" " " "	Gem Phosphate, ...	Greensboro, ...	4.48	10.40	4.78	1.33	16.51	14 04	14 00	884
1462	R. L. Christie & Co., Baltimore, Md., ...	Unexcelled Acid Phosphate, ..	Fairmount, ...	6.14	10.46	5.18	0.78	16.42	14 12	10 50	1462

1321	E. A. Clendennin & Bro., Colora, Md., ...	Soluble Bone Phosphate, ...	Nottingham, ...	9.51	6.91	4.09	2.75	13.75	11 62	13 00	1321
1371	" " " "	T. & P. Super-Phosphate, ...	Sarvers' Station, ...	4.68	13.30	2.51	1.00	16.81	14 64	16 00	1371
880	Cleveland Dryer Co., Cleveland, Ohio, ...	XXX Phosphate, ...	Greensboro'	10.06	9.43	6.50	0.56	16.49	14 11	20 00	880
881	" " " "	Horse-head Brand, ...	Greensboro'	10.05	9.70	5.79	0.65	16.14	13 90	16 00	881
1098	E. Frank Coe Co., New York, ...	High Grade Soluble Bone, ...	Mooresburg, ...	12.95	10.04	4.01	2.07	16.12	13 58	14 00	1098
1387	" " "	High Grade Soluble Bone, ...	Kittanning, ...	6.72	9.22	4.30	2.67	16.19	13 40	17 00	1387
1276	Henry Cope & Co., Lincoln University, Pa.,	Acid Phosphate, ...	West Grove, ...	10.21	11.00	4.94	0.51	16.45	14 28	10 50	1276
1292	Josiah Cope & Co., Lincoln University, Pa.,	Acidulated Phosphate, ...	Fairville, ...	9.23	11.32	4.36	0.74	16.42	14 23	10 00	1292
1109	J. A. Cranston Co., Newport, Delaware, ...	Horseshoe Soluble Bone, ...	Bloomsburg, ...	2.93	10.14	4.19	2.68	17.01	13 99	14 00	1109
795	Wm. Davison & Co., Baltimore, Md., ...	South Carolina Bone, ...	Hanover, ...	7.86	9.88	5.16	1.74	16.78	14 06	13 00	795
797	Thomas De C. Ruth, Baltimore, Md., ...	Dissolved Bone, ...	Hanover, ...	8.71	11.99	3.86	1.05	16.90	14 54	11 50	797
979	Louis F. Detrick, Baltimore, Md., ...	Extra Acid Phosphate, ...	Mifflinburg, ...	6.04	13.72	2.54	0.80	17.06	14 89	12 00	979
1263	P. P. Dunan, Baltimore, Md., ...	Dissolved Bone Phosphate, ...	Mercersburg, ...	6.63	12.65	3.40	1.28	17.33	14 82	11 00	1263
834	Eureka Fertilizer Co., Perryville, Md., ...	P. & P. Super-Phosphate, ...	Bradley Junction, ...	9.71	10.16	3.37	3.02	16.55	13 63	14 25	834
1250	" " " "	P. & P. Super-Phosphate, ...	West Chester, ...	14.30	11.79	2.00	2.10	15.89	13 65	11 50	1250
736	Farmers' Fertilizer Co., Westminster, Md.,	Acid Phosphate, ...	New Oxford, ...	5.43	10.63	4.47	1.42	16.52	14 05	12 00	736
810	W. S. Farmer & Co., Baltimore, Md., ...	Dissolved S. C. Bone, ...	Carrolltown, ...	8.34	12.24	3.64	1.00	16.88	14 58	12 00	810
1057	" " " "	Dissolved S. C. Bone, ...	Littlestown, ...	6.39	13.74	3.53	0.54	17.81	15 40	12 00	1057
1508	Joseph R. Gawthrop, Kennett Square, Pa.,	Acid Phosphate, ...	Concord, ...	13.11	11.38	3.19	1.20	15.77	13 72	11 00	1508
581	Charles V. Geiger, Geiger's Mills, Pa., ...	High Grade Acid Phosphate, ..	Hummelstown, ...	6.08	11.11	3.94	1.30	16.35	14 04	12 50	581
573	Great Eastern Fertilizer Co., Rutland, Vt.,	Dissolved Bone, ...	Shartlesville, ...	10.73	12.75	3.39	0.77	16.91	14 70	13 00	573
1338	S. M. Hess & Bro., Philadelphia, Pa., ...	High Grade Acid Phosphate, ..	Bedford, ...	4.03	8.94	6.97	0.75	16.66	14 10	15 00	1338
1237	Jarecki Chemical Co., Sandusky, Ohio, ...	Wheat Special, ...	Atchison, ...	4.64	11.83	4.35	0.87	17.05	14 66	18 00	1237
808	Lackawanna Fert. & Chem.Co., Moosic, Pa.,	Acid Phosphate, ...	Bradley Junction, ...	5.10	13.03	4.12	0.58	17.73	15 27	13 75	808
616	Liebig Manufacturing Co., New York, ...	High Grade Acid Phosphate, ..	Loveville, ...	9.81	11.32	4.18	1.30	16.80	14 32	14 00	616

ACIDULATED SOUTH CAROLINA ROCK—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Where Selected.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Total phosphoric acid.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
627	Maryland Fertilizing Co., Baltimore, Md.,	Dissolved S. C. Bone, ...	Huntingdon, ...	9.35	11.01	4.33	1.68	17.02	14 34	13 00	627
738	" " " "	Dissolved Phosphate, ...	Abbottstown, ...	6.88	12.84	3.54	1.10	17.48	14 98	16 00	738
1267	H. P. McLaughlin, State Line, Pa., ...	Pure S. C. Rock, ...	State Line.	6.05	12.80	2.85	1.15	16.80	14 55	12 00	1267
1064	F. Mehring, Bruceville, Md., ...	Acid Phosphate, ...	Littlestown, ...	6.88	11.91	4.40	3.47	19.78	15 67	13 00	1064
1036	Miller Fertilizer Co., Baltimore, Md., ...	S. C. Bone, ...	Dillsburg, ...	3.16	12.90	3.40	1.25	17.55	14 98	10 50	1036
777	H. H. Myers, Codorus, Pa., ...	Soluble Bone, ...	Seven Valleys, ...	5.24	12.81	3.00	1.53	17.34	14 78	12 00	777
1200	Niagara Fert. Works, Buffalo, N. Y., ...	Queen City Phosphate, ...	Murrinsville, ...	5.55	6.11	6.69	1.53	14.33	12 18	19 00	1200
753	G. Ober & Sons' Co., Baltimore, Md., ...	Dissolved Bone Phosphate, ...	York, ...	6.20	14.32	3.52	0.64	18.48	15 87	12 00	753
989	Pacific Guano Co., New York, ...	Dissolved Bone Phos. of Lime,	Petersburg, ...	2.84	13.03	3.18	2.28	18.49	15 33	13 00	989
645	Packers' Union Fertilizer Co., New York,	Acidulated Bone, ...	Lewisburg.	7.48	12.71	3.96	0.43	17.10	14 89	13 00	645
849	" " " "	Acidulated Bone, ...	McKee, ...	6.29	14.04	1.88	0.64	16.56	14 67	14 00	849
1231	Patapsco Guano Co., Baltimore, Md., ...	Pure Dissolved S. C. Bone, ..	Greenwood, ...	6.63	11.13	4.58	0.80	16.51	14 25	13 00	1231
914	Moro Phillips Chem. Co., Philadelphia. Pa.,	Soluble Bone Phosphate, ...	Shippensburg, ...	5.82	10.82	4.17	1.43	16.42	14 00	12 50	914
621	Piedmont—Mt. Airy Guano Co., Balti., Md.,	S. C. Bone Phosphate, ...	Petersburg, ...	4.97	10.31	3.99	1.82	16.12	13 66	12 00	621
614	R. H. Pollock, Baltimore, Md., ...	Dissolved S. C. Bone, ...	Loveville, ...	7.48	10.41	4.83	1.37	16.61	14 10	13 00	614
863	Quinnipiac Company, New York, ...	Soluble Dissolved Bone, ...	Newry, ...	2.33	14.47	2.69	1.65	18.81	15 82	12 00	863
694	Ramsburg Fertilizer Co., Frederick, Md.,	Dissolved Bone Super-Phos., ..	Abbottstown, ...	5.70	12.22	4.80	2.79	19.81	15 87	13 00	694

800	Rasin Fertilizer Co., Baltimore, Md., ...	Acid Phosphate, ...	Carrolltown, ...	7.30	13.59	2.69	1.24	17.52	15 04	13 00	800
887	" " " "	Acid Phosphate, ...	Claysville, ...	6.87	12.80	3.46	0.63	16.89	14 73	15 00	887
655	John S. Reese & Co., Baltimore, Md., ...	Elm Phosphate, ...	Thomasville, ...	10.11	11.66	4.52	0.86	17.04	14 64	14 00	655
1243	" " " "	Dissolved Phosphate of Lime,	Canonsburg, ...	7.14	12.24	3.69	1.14	17.07	14 64	20 00	1243
1287	Scott Fertilizer Co., Elkton, Md., ...	Tip Top Soluble Bone, ...	Rosedale, ...	7.03	11.24	5.05	0.64	16 93	14 58	10 50	1287
1097	G. W. Sharretts & Co., Baltimore, Md., ..	Standard Dis. S. C. Phosphate,	Mooresburg, ...	7.57	12.09	2.84	1.94	16.87	14 31	13 00	1097
1142	M. L. Shoemaker & Co., Philadelphia, Pa.,	Dissolved S. C. Rock, ...	Elk View, ...	11.72	11.86	2.55	1.20	15.61	13 70	12 00	1142
847	Standard Fertilizer Co., Boston, Mass, ...	Standard Dis. Bone Phosphate,	Hollidaysburg, ...	3.62	13.92	3.39	1.37	18.68	15 78	13 00	847
846	Susquehanna Fertilizer Co., Baltimore, Md.,	Soluble Bone Phosphate, ...	Hollidaysburg, ...	5.05	13.40	2.73	1.39	17.52	14 97	13 00	846
593	I. P. Thomas & Son Co., Philadelphia, Pa.,	S. C. Phosphate, ...	Shartlesville, ...	2.06	13.09	3.43	2.05	18.57	15 42	12 00	593
1165	Tygert—Allen Fert. Co., Philadelphia, Pa.,	High Grade Dis. S. C. Bone,	Grampian, ...	3.37	13.21	2.84	0.65	16.70	14 66	15 00	1165
1226	" " " "	Dissolved Bone Phosphate, ...	Millville, ...	7.82	13.40	2.73	0.66	16.79	14 74	12 00	1226
1257	" " " "	W'lt'n&Whann's XX Acid Ph.,	Guilford Springs, ...	4.56	13.41	2.41	0.74	16.56	14 56	11 00	1257
787	Virginia—Carolina Chem.Co.,Richmond,Va.,	Guar. 14 per cent. Acid Phos.,	Hanover, ...	3.15	12.56	3.21	1.80	17.57	14 80	12 50	787
1394	Walker, Stratman & Co., Pittsburg, Pa.,	Welcome Br'd,Helpmate Phos..	Pittsburg, ...	2.89	8.22	5.12	0.87	14.21	12 51	17 00	1394
1137	John Whann & Son, Philadelphia, Pa., ..	A. A. Acid Phosphate, ...	Kelton, ...	9.90	11.47	3.90	0.33	15.70	13 92	14 00	1137
1135	M. E. Wheeler & Co., Rutland, Vermont, ..	Electrical Dissolved Bone, ...	New London, ...	3.64	13.98	2.70	0.87	17.55	15 21	12 00	1135
560	Williams & Clark Fertilizer Co., New York,	Acorn Brand Acid Phosphate,	Somerset, ...	9.87	12.55	3.64	1.39	17.58	14 94	14 00	560
913	" " " "	Plain Dissolved Bone, ...	Leesburg, ...	4.12	12.90	3.05	2.03	17.98	15 07	15 00	913
1016	" " " "	Acorn Brand Acid Phosphate,	Saltsburg, ...	2.42	13.28	2.80	2.56	18.64	15 38	16 00	1016
1367	" " " "	Acorn Brand Acid Phosphate,	Green Garden, ...	2.31	14.11	2.56	3.73	20.40	16 24	13 00	1367
1008	Robert A. Woolridge Co., Baltimore, Md.,	XXTra Acid Phosphate, ...	Black Lick, ...	5.49	10.53	4.48	1.09	16.10	13 87	12 00	1008
1153	York Chemical Works, York, Pa., ...	Dissolved S. C. Phosphate, ...	Monaghan, ...	14.10	11.55	4.03	0.75	16.33	14 23	14 00	1153
637	Zell Guano Co., Baltimore, Md., ...	Dissolved Bone Phosphate, ...	Williamsburg, ...	3.80	13.33	2.33	1.90	17.56	14 88	11 25	637
642	" " "	Dissolved S. C. Bone, ...	Winfield, ...	4.01	9.87	5.99	1.75	17.61	14 53	11 00	642
860	" " "	Dissolved Bone Phosphate, ...	Winfield, ...	3.45	10.63	6.12	0.94	17.69	14 88	12 50	860

ANALYSES OF COMPOSITE SAMPLES.

COMPLETE FERTILIZERS.

Containing Phosphoric Acid, Potash and Nitrogen.

Samples Selected from August 1, 1897 to January 1, 1898.

The samples in the preceding tables are selected by seven special agents of the Department who work independently of each other; this necessarily causes a duplication of samples, and in some few cases, six samples of the same brand are sent in by as many different agents. After all the regular samples have been analyzed and reported upon, the chemist forms "composite" samples by mixing all the samples of the same brand, and taking the "composite" sample from the mixture. The analyses which follow are those of "composite" samples obtained in this manner, and fairly represent the average of all the samples of the same brand.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1512	American Reduction Co., Pittsburg, Pa., ..	Common Sense Brand, ...	Three, ...	5.81	2.44	2.10	0.68	1.03	2.13	$18 87	$17 00	1512
1513	" " " " ..	Pouter Brand, ...	Two, ...	4.06	2.64	2.58	3.36	2.06	1.85	21 19	24 00	1513
1515	Armour Fertilizer Works, Chicago, Ill., ..	Ammoniated Bone with Potash,	Four, ...	3.28	2.74	4.61	4.08	1.64	2.82	26 91	27 00	1515
1516	" " " " ..	Grain Grower, ...	Five, ...	4.62	4.17	5.24	5.65	2.42	2.63	30 39	23 00	1516
1517	Baltimore Guano Co., Baltimore, Md., ...	Game Guano, ...	Two, ...	5.57	5.86	3.30	2.48	2.97	2.22	27 53	24 50	1517
1520	Baugh & Sons' Co., Gettysburg, Pa., ...	Double Eagle Phosphate, ...	Two, ...	9.70	4.48	5.19	3.42	0.84	2.23	26 70	24 25	1520
1522	D. Blocher & Co., Gettysburg, Pa., ...	Dis. Raw Bone and Potash, ..	Three, ...	8.31	7.22	3.96	0.87	2.84	2.02	28 93	23 67	1522

1524	Bowker Fertilizer Co., Boston & New York,	Sure Crop Phosphate,	Five,	5.97	4.50	5.84	3.96	1.22	1.03	24 08	25 00	1524
1527	Bradley Fertilizer Co., Boston, Mass.,	Dissolved Bone with Potash,	Three,	10.52	4.03	5.01	2.00	2.78	1.15	23 60	28 00	1527
1528	" " " "	Niagara Phosphate,	Three,	8.20	4.73	4.02	1.85	1.66	1.21	22 18	23 50	1528
1529	" " " "	Sea Fowl Guano,	Two,	9.64	4.14	5.59	2.65	1.64	2.29	27 39	32 50	1529
1533	Chemical Co. of Canton, Baltimore, Md.,	B'k'r's Sp'lWh't,C'n&Gr'sMix.,	Six,	5.69	4.69	4.50	2.29	2.33	1.06	23 18	22 17	1533
1537	" " " "	Baker's Standard High Grade,	Three,	8.66	6.80	2.53	2.22	2.99	1.83	26 95	26 67	1537
1538	" " " "	Harrow Brand,	Two,	9.03	4.85	3.96	2.11	2.24	0.85	21 85	16 50	1538
1540	" " " "	Red Clover, for Wheat&Grass,	Three,	4.65	2.55	3.81	1.92	1.88	0.87	18 18	20 00	1540
1543	Clark's Cove Fertilizer Co., New York,	Defiance Complete Manure,	Two,	9.35	3.84	4.80	2.35	2.01	1.23	22 74	21.50	1543
1544	" " " "	King Philip Alkaline Guano,	Three,	13.77	3.34	2.86	2.11	3.08	1.60	21 98	24 17	1544
1547	Cleveland Dryer Co., Cleveland, Ohio,	Ohio Seed Maker,	Two,	8.66	6.91	3.76	2.63	1.04	1.16	24 28	25 50	1547
1548	E. Frank Coe Company, New York,	Grass and Grain Fertilizer.	Two,	7.30	7.83	3.96	2.48	1.78	1.13	26 71	25 00	1548
1551	Josiah Cope & Co., Lincoln University, Pa.,	Try Me Bone Phosphate,	Two,	6.86	7.54	3.15	2.15	5.49	1.48	30 46	24 00	1551
1552	" " " "	Pure Bone Phosphate,	Two,	6.85	4.06	4.88	4.22	3.59	2.12	28 59	26 50	1552
1554	Crocker Fert. & Chem. Co., Buffalo, N. Y.,	New Rival Ammoniated Phos.,	Four,	6.72	7.36	3.41	1.37	1.89	1.83	27 13	26 67	1554
1557	" " " "	Potato, Hop & Tobacco Phos.,	Two,	6.93	8.50	3.20	0.80	3.28	2.06	30 30	31 00	1557
1558	" " " "	Universal Grain Grower,	Three,	4.71	5.17	2.92	1.48	3.43	0.96	22 33	24 25	1558
1561	Louis F. Detrick, Baltimore, Md.,	Kangaroo Komplete Kompo'nd,	Three,	6.66	7.36	2.93	2.41	3.11	1.70	27 86	24 00	1561
1567	Eureka Fertilizer Co., Perryville, Md.,	Farmers' Favorite Bone Phos.,	Three.	7.00	7.29	3.67	2.46	1.57	1.18	25 30	23 00	1567
1568	" " " "	Grain and Grass Mixture,	Three,	10.06	7.09	4.17	2.63	1.95	0.96	25 33	20 00	1568
1570	Joseph R. Gawthrop, Kennett Square, Pa.,	Complete Am. Bone Phosphate,	Two,	3.68	5.83	2.64	3.41	3.62	1.64	26 74	25 00	1570
1577	Griffith & Boyd, Baltimore, Md.,	Cereal Plant Food,	Two,	9.25	5.03	3.48	2.11	2.57	0.82	21 67	20 00	1577
1578	" " "	Valley Fertilizer,	Two,	8.73	5.04	3.26	1.99	3.01	0.48	15 63	16 50	1578
1572	Great Eastern Fertilizer Co., Rutland. Vt.,	General Fertilizer,	Two,	8.30	4.90	4.93	1.15	3.84	1.06	25 05	22 50	1572

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1573	" " " "	Wheat Special, ...	Two, ...	8.66	3.60	5.93	1.54	2.11	1.68	24 96	22 00	1573
1574	" " " "	English Wheat Grower, ...	Two, ...	8.43	3.28	7.25	1.40	2.41	0.91	23 74	20 50	1574
1579	S. M. Hess & Bro., Philadelphia, Pa., ...	Keystone Bone Phosphate, ...	Two, ...	5.65	3.23	9.00	1.47	0.68	0.93	24 14	18 67	1579
1582	Hubbard & Co., Baltimore, Md., ...	Wheat Growers' Jewel, ...	Two, ...	7.13	8.17	4.14	1.45	1.66	1.34	27 16	21 50	1582
1583	M. P. Hubbard & Co., Baltimore, Md., ...	Harvest King, ...	Two, ...	6.55	6.79	2.46	1.63	1.47	1.50	23 72	19 75	1583
1585	Lister's Agri. Chem. Works, Newark, N. J.,	Success Fertilizer, ...	Three, ...	7.59	8.00	3.46	1.75	2.10	1.38	26 91	25 33	1585
1586	" " " "	Harvest Queen, ...	Three, ...	7.61	7.71	3.96	1.75	1.97	1.42	26 96	24 67	1586
1588	" " " "	Special Potato Fertilizer, ...	Three, ...	6.68	7.02	2.79	1.81	4.63	2.56	31 46	27 25	1588
1590	" " " "	Special Fertilizer for Wheat, ..	Three, ...	5.59	6.40	3.30	2.73	1.99	1.51	25 33	31 00	1590
1591	" " " "	Special Crop Producer, ...	Two, ...	3.81	3.92	3.64	3.16	1.24	0.99	20.16	19 50	1591
1592	Mapes' Formula & Peruv'n Guano Co., N.Y.,	Cereal Brand, ...	Four, ...	6.06	4.55	2.75	2.28	3.47	2.22	25 94	27 25	1592
1593	" " " "	Complete Manure, "A" Brand,	Two, ...	7.22	4.18	3.66	5.38	3.69	2.99	30 97	34 00	1593
1597	Maryland Fertilizing Co., Baltimore, Md.,	Ammoniated Bone, ...	Two, ...	8.56	7.02	2.20	3.48	2.07	1.96	26 73	25 50	1597
1598	" " " "	Ammoniated O. K. Fertilizer,	Two, ...	10.01	7.09	1.78	2.35	1.84	1.42	23 71	19 50	1598
1600	Michigan Carbon Works, Detroit, Mich., ..	Homestead Fertilizer, ...	Two, ...	7.15	7.50	2.41	1.28	2.34	2.39	28 51	27 00	1600
1602	Milsom Ren'g & Fert. Co., Buffalo, N. Y.,	Buffalo Fertilizer, ...	Two, ...	7.03	6.72	2.02	2.41	1.33	1.86	24 55	26 50	1602
1603	" " " "	Wheat, Oats and Barley, ...	Five, ...	5.41	5.96	2.32	2.54	1.66	1.31	22 48	24 70	1603

1604	" " " "	Erie King,	Three,	4.81	5.12	2.49	1.84	1.54	0.97	19 89	21 67	1604
1605	Wm. C. Newport Co., Willow Grove, Pa.,	Rectified Phosphate,	Two,	6.41	4.66	3.35	5.58	4.87	2.82	31 90	33 00	1605
1608	North Western Fertilizer Co., Chicago, Ill.,	Ammoniated Dissolved Bone,	Two,	5.29	5.46	3.52	2.73	1.09	3.53	30 37	27 00	1608
1611	Oakfield Fertilizer Co., Buffalo, N. Y.,	Great Value Fertilizer,	Two,	11.96	3.38	4.49	0.78	1.32	1.06	19 58	20 50	1611
1612	" " " "	High Farming Fertilizer,	Two,	11.90	5.08	2.95	1.88	2.71	2.10	25 53	29 00	1612
1613	" " " "	Golden Sheaf Fertilizer,	Four,	11.23	4.72	3.52	1.05	2.21	1.45	22 83	23 25	1613
1614	" " " "	Standard Fertilizer,	Two,	6.69	6.81	3.71	1.95	2.11	2.70	30 09	33 00	1614
1616	Pacific Guano Co., New York,	A. No. 1 Phosphate,	Two,	10.33	3.88	5.02	2.83	2.09	1.40	23 89	21 50	1616
1621	Packers' Union Fertilizer Co., New York,	Wheat, Oats & Clover Fert.,	Four,	6.69	7.50	3.22	1.40	2.84	0.66	24 08	18 00	1621
1619	Patapsco Guano Co., Baltimore, Md.,	Grain and Grass Producer,	Two,	10.75	7.66	2.78	1.29	2.76	1.01	24 82	21 00	1619
1623	" " " "	Grange Mixture,	Two,	6.32	6.93	3.86	0.57	2.65	1.66	26 88	22 00	1623
1625	Moro Phillips Chem. Co., Philadelphia, Pa.,	Farmers' Phosphate,	Two,	7.48	5.45	2.79	1.45	1.55	0.68	19 69	16 00	1625
1626	" " " "	C. & G. Complete Fertilizer,	Two,	9.60	5.23	2.65	1.79	1.55	1.04	20 59	19 75	1626
1628	Pittsburg Provision Co., Pittsburg, Pa.,	Keystone Fertilizer,	Three,	2.37	2.84	4.75	3.79	1.09	1.66	22 56	25 33	1628
1633	Powell Fert. & Chem. Co., Baltimore, Md.,	Red Bag Fertilizer,	Two,	4.24	3.24	6.05	3.89	2.63	1.03	24 22	19 75	1633
1635	Quinnipiac Co., New York.	Mohawk Fertilizer,	Three,	8.49	2.79	5.25	3.09	1.20	1.13	21 04	21 83	1635
1637	" " "	Climax Phosphate,	Five,	7.30	3.41	5.70	3.52	2.06	1.41	24 36	22 80	1637
1639	" " "	Ammoniated Dissolved Bone,	Two,	5.78	5.75	4.52	4.10	2.18	2.15	29 12	27 50	1639
1640	Rasin Fertilizer Co., Baltimore, Md.,	Empire Guano,	Four,	8.15	8.65	0.74	3.04	1.94	2.14	27 52	22 75	1640
1644	" " " "	Ammoniated Alkaline Phos.,	Four,	9.20	5.60	4.53	2.87	1.50	1.62	25 62	20 56	1644
1645	" " " "	Ammoniated Super-Phosphate,	Three,	8.36	7.40	5.16	1.76	1.24	0.98	25 90	17 50	1645
1648	Sharpless & Carpenter, Philadelphia, Pa.,	No. 1 Bone Phosphate,	Two,	8.47	7.29	2.51	1.67	2.02	1.75	25 87	28 00	1648
1650	Standard Fertilizer Co., Boston, Mass.,	Standard Guano,	Four,	8.26	5.05	3.41	3.18	2.25	1.22	23 16	23 50	1650
1652	" " " "	Standard A. Brand,	Three,	6.12	5.74	3.31	2.69	1.38	1.22	22 80	25 00	1652
1654	Susquehanna Fertilizer Co., Baltimore, Md.,	XXV Phosphate,	Two,	6.50	7.31	3.49	1.65	1.37	1.16	24 36	23 25	1654

COMPLETE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1656	" " " "	Ammoniated Bone Phosphate,	Two, ...	6.51	7.78	4.01	2.76	2.33	1.85	29 58	23 00	1656
1659	I. P. Thomas & Son Co., Philadelphia, Pa.,	Normal Bone Phosphate, ...	Three, ...	6.63	7.95	2.62	2.21	2.06	1.32	25 72	25 00	1659
1660	" " " "	Improved Super-Phosphate, ...	Four, ...	5.64	7.90	2.97	2.23	1.91	1.20	25 53	20 50	1660
1661	Tygert—Allen Fert. Co., Philadelphia, Pa.,	Star Bone Phosphate, ...	Four, ...	5.49	8.15	1.70	1.81	2.80	2.08	28 15	26 75	1661
1663	Walker, Stratman & Co., Pittsburg, Pa.,	Big Bonanza, ...	Two, ...	3.99	9.57	1.95	2.67	2.79	1.97	30 26	28 00	1663
1665	M. E. Wheeler & Co., Rutland, Vermont, ..	Royal Wheat Grower, ...	Four, ...	7.19	6.93	2.01	1.88	2.68	1.08	23 48	22 25	1665
1667	Williams & Clark Fertilizer Co., New York,	Royal Bone Phosphate, ...	Four, ...	8.32	4.43	5.25	3.16	2.15	1.50	25 46	25 50	1667
1672	Robert A. Wooldridge Co., Baltimore, Md.,	Little Giant, ...	Four, ...	7.95	7.15	3.17	1.29	2.23	0.98	24 04	20 54	1672
1673	" " " "	Triumph Brand, ...	Three, ...	7.65	7.07	2.20	1.42	4.13	1.28	25 94	23 83	1673
1677	The Zell Guano Co., Baltimore, Md., ...	Calvert Guano, ...	Two, ...	7.47	8.55	2.64	1.94	1.77	0.85	24 56	19 75	1677
1680	" " " "	The Little Giant, ...	Three, ...	6.47	7.43	2.87	1.09	0.98	1.18	23 30	17 33	1680

ALKALINE FERTILIZERS.

COMPOSITE SAMPLES.

Containing Phosphoric Acid and Potash.

From Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1525	Bowker Fertilizer Co., Boston & New York,	Super-Phosphate with Potash, ..	Two, ...	4.98	4.18	6.53	4.74	1.04	$12 98	$19 00	1525
1541	Chemical Co. of Canton, Baltimore, Md.,	Soluble Bone and Potash, ...	Three, ...	9.66	1.68	8.12	1.81	2.83	13 86	14 16	1541
1545	Clark's Cove Fertilizer Co., New York, ...	Triumph Bone and Potash, ...	Two, ...	7.96	8.62	2.74	2.05	2.07	15 21	19 00	1545
1553	Josiah Cope & Co., Lincoln University, Pa.,	Soluble Bone and Potash, ...	Two, ...	9.67	6.71	4.96	1.52	2.25	15 20	14 50	1553
1564	Louis F. Detrick, Baltimore, Md., ...	Bone and Potash Mixture, ...	Two, ...	9.34	6.09	5.02	3.20	2.33	15 49	15 00	1564
1565	James G. Downward & Co., Coatesville, Pa.,	Soluble Bone and Potash, ...	Two, ...	12.33	8.52	1.96	0.45	3.73	15 96	17 00	1565
1575	Great Eastern Fertilizer Co., Rutland, Vt.,	Soluble Bone and Potash, ...	Three, ...	8.15	7.18	4.73	1.28	2.04	15 12	17 50	1575
1587	Lister's Agri. Chem. Works, Newark, N. J.,	Animal Bone and Potash, ...	Two, ...	9.41	5.79	4.33	1.02	5.92	17 92	23 50	1587
1594	Maryland Fertilizer Co., Baltimore, Md., ..	Linden Super-Phosphate, ...	Two, ...	9.25	8.60	3.71	2.14	2.32	16 08	18 50	1594
1599	" " " " ..	Bono-Super-Phosphate, ...	Three, ...	9.57	8.29	3.65	1.62	1.87	15 15	16 50	1599
1617	Pacific Guano Co., New York, ...	Dissolved Bone and Potash, ...	Two, ...	6.56	7.40	2.82	2.67	2.12	14 65	16 50	1617
1618	Packers' Union Fertilizer Co., New York,	H.G.Wheat,Oats & Clover Ph.,	Two, ...	6.25	8.57	4.13	0.83	2.24	15 80	15 50	1618
1622	Patapsco Guano Co., Baltimore, Md., ...	Baltimore Soluble Phosphate,	Three, ...	7.75	7.58	4.48	0.97	2.14	15 25	15 00	1622
1632	R. H. Pollock, Baltimore, Md., ...	Victor Bone Phosphate, ...	Two, ...	7.51	7.72	3.30	1.56	1.37	13 99	17 00	1632

ALKALINE FERTILIZERS—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Potash.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1638	Quinnipiac Co., New York, ...	Dissolved Bone and Potash, ..	Four, ...	5.75	5.52	5.82	2.49	2.32	15 26	16 75	1638
1643	Rasin Fertilizer Co., Baltimore, Md., ...	Bone and Potash Fertilizer, ..	Three, ...	8.42	8.00	5.80	1.44	1.22	15 46	16 00	1643
1651	Standard Fertilizer Co., Boston, Mass, ...	Standard Bone and Potash, ...	Two, ...	7.21	5.14	5.38	2.28	2.86	15 24	25 00	1651
1662	Tygert—Allen Fert. Co., Philadelphia, Pa.,	Star Soluble Bone and Potash,	Two, ...	4.75	8.22	3.46	0.89	2.27	15 14	22 00	1662
1666	Williams & Clark Fertilizer Co., New York,	Americus Br. Dis. Bone & Pot.,	Four, ...	4.94	8.41	3.26	2.15	2.14	15 51	17 75	1666
1670	Robert A. Wooldridge Co., Baltimore, Md.,	Bone and Potash Mixture, ...	Two, ...	6.85	8.25	4.29	2.26	1.71	15 57	15 83	1670
1678	Zell Guano Co., Baltimore, Md., ...	Electric Phosphate, ...	Three, ...	8.80	6.79	4.76	2.32	2.03	15 20	17 92	1678

DISSOLVED BONE FERTILIZERS.

COMPOSITE SAMPLES.

Containing Phosphoric Acid and Nitrogen.

Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1526	Bowker Fertilizer Co., Boston & New York,	Ammoniated O. I. O. Phos., ...	Two, ...	2.60	6.95	6.62	1.91	0.80	$16 77	$13 50	1526
1642	Rasin Fertilizer Co., Baltimore, Md., ...	Dissolved Bone, ...	Three, ...	6.88	8.36	2.68	3.19	2.18	26 40	23 17	1642
1658	Susquehanna Fertilizer Co., Baltimore, Md.,	Pure Dissolved Bone, ...	Two, ...	5.06	8.22	3.42	6.88	2.08	28 47	26 00	1658

GROUND BONE.

COMPOSITE SAMPLES.

Containing Phosphoric Acid and Nitrogen.

Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Insoluble phosphoric acid.	Nitrogen.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1514	Armour's Fertilizer Works, Chicago, Ill.,	Bone Meal, ...	Three, ...	4.47	23.78	3.48	$29 06	$28 50	1514
1539	Chemical Co. of Canton, Baltimore, Md.,	Baker's Stand. Ground Bone,	Two, ...	3.94	17.96	3.43	24 45	25 00	1531
1546	Cleveland Dryer Co., Cleveland, O., ...	Superior Bone Meal, ...	Two, ...	5.78	22 40	3.40	27 38	31 00	1546
1581	S. M. Hess & Bro., Philadelphia, Pa., ...	Ground Bone, ...	Two, ...	4.76	26 56	2.50	30 73	29 50	1581
1589	Lister's Agri. Chem. Works, Newark, N. J.,	Pure Raw Bone Meal, ...	Two, ...	3.86	25.25	2.72	27 30	28 33	1589
1607	North Western Fertilizer Co., Chicago, Ill.,	Fine Raw Bone, ...	Two, ...	6.55	23 73	3.76	29 97	28 50	1607
1627	Pittsburg Provision Co., Pittsburg, Pa., ..	Pure Bone Meal, ...	Two, ...	4.52	23.55	3.61	29 24	30 00	16.7
1631	R. H. Pollock, Baltimore, Md., ...	Soft Ground Bone, ...	Two, ...	4.46	16.97	2.86	21 94	28 00	1631
1636	Quinnipiac Co., New York, ...	Uncas Bone Meal, ...	Two, ...	2.16	17.51	1.73	21 32	26 50	1636
1647	Scott Fertilizer Co., Elkton, Md., ...	Pure Ground Bone, ...	Two, ...	6.84	23.07	4.09	26 91	24 75	1647
1657	Susquehanna Fertilizer Co., Baltimore, Md.,	Pure Ground Bone, ...	Two, ...	7.08	23.42	3.78	28 24	26 50	1657

ACIDULATED SOUTH CAROLINA ROCK.

COMPOSITE SAMPLES.

Containing Phosphoric Acid Only.

Samples Selected from August 1, 1897 to January 1, 1898.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Total phosphoric acid.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1518	Baltimore Guano Co., Baltimore, Md., ...	Dissolved Bone Phosphate, ...	Two, ...	5.26	7.57	7.72	1.30	16.59	$13 76	$14 00	1518
1523	D. Bloeher & Co., Gettysburg, Penna., ...	Dissolved S. C. Bone Phos.,	Two, ...	5.15	10.78	6.65	0.43	17.86	15 12	12 00	1523
1530	Bradley Fertilizer Co., Baltimore, Md., ...	Dissolved Bone, ...	Three, ...	5.64	6.42	6.96	1.43	14.81	12 51	20 00	1530
1534	Chemieal Co. of Canton, Baltimore, Md.,	Pure Dissolved S. C. Bone, ...	Three, ...	4.62	10.96	5.00	1.00	16.96	14 44	12 67	1534
1535	" " " "	Gem Phosphate, ...	Four, ...	4.73	10.47	5.56	1.00	17.03	14 46	12 63	1535
1536	" " " "	Baker's Dis. Bone Phosphate,	Three, ...	4.64	10.45	5.23	1.06	16.74	14 26	17 00	1536
1550	Josiah Cope & Co., Lincoln University, Pa.,	Acidulated Phosphate, ...	Two, ...	8.17	11.59	3.79	0.51	15.89	14 01	10 50	1550
1560	Detrick Fert. & Chem. Co., Baltimore, Md.,	Dissolved S. C. Bone, ...	Two, ...	3.78	13.81	3.17	0.69	17.67	15 28	11 75	1560
1563	Louis F. Detrick, Baltimore, Md., ...	XXtra Acid Phosphate, ...	Two, ...	4.74	13.41	3.13	0.85	17.39	15 06	11 25	1563
1566	Eureka Fertilizer Co., Perryville, Md..	Super-Phosphate, ...	Three, ...	2.80	9.49	5.42	1.91	16.82	13 96	11 67	1566
1569	W. S. Farmer & Co.. Baltimore, Md., ...	Dissolved S. C. Bone, ...	Two, ...	3.72	13.63	3.94	0.68	18.25	15 64	12 38	1569
1571	Joseph R. Gawthrop, Kennett Square. Pa.,	Acid Phosphate, ...	Two, ...	10.02	11.98	3.75	0.69	16.42	14 31	10 00	1571
1576	Great Eastern Fertilizer Co., Rutland, Vt.,	General Dissolved Bone, ...	Three, ...	8.72	10.73	4.75	0.73	16.21	14 05	13 34	1576
1584	Liebig Manufacturing Co., New York.	High Grade Aeid Phosphate. ..	Two, ...	7.99	12.45	3.82	0.74	17.01	14 72	12 25	1584

ACIDULATED SOUTH CAROLINA ROCK—Continued.

Sample number.	Name and Address of Manufacturer.	Name of Fertilizer.	Number of Samples Combined.	Moisture.	Soluble phosphoric acid.	Reverted phosphoric acid.	Insoluble phosphoric acid.	Total phosphoric acid.	Comparative commercial value per ton.	Selling price at point of selection per ton.	Sample number.
1595	Maryland Fertilizing Co., Baltimore, Md.,	Dissolved Bone, ...	Two, ...	7.96	13.07	3.34	0.80	17.21	14 90	15 50	1595
1596	" " " "	Dissolved S. C. Bone, ...	Four, ...	7.19	12.34	3.73	1.10	17.17	14 71	12 88	1596
1601	Milsom Rend'g & Fert. Co., Buffalo, N. Y.,	Dissolved Bone, ...	Two, ...	3.50	10.07	3.84	0.67	14.58	13 03	16 00	1601
1615	Pacific Guano Co.. New York, ...	Dis. Bone Phosphate of Lime,	Two, ...	1.69	12.94	3.18	2.17	18.29	15 22	12 38	1615
1620	Patapsco Guano Co., Baltimore, Md., ...	Pure Dissolved S. C. Bone, ...	Two, ...	7.91	10.37	4.87	0.89	16.13	13 93	12 83	1620
1624	Moro Phillips Chem. Co., Philadelphia, Pa.,	Soluble Bone Phosphate, ...	Three, ...	5.56	11.01	4.51	0.89	16.41	14 14	12 17	1624
1634	Quinnipiac Co., New York, ...	Soluble Dissolved Bone, ...	Three, ...	2.07	14.05	3.06	1.34	18.45	15 64	12 83	1634
1646	Jno. S. Reese Co., Baltimore, Md., ...	Dissolved Phosphate of Lime,	Three, ...	6.61	12.35	4.35	0.76	17.46	14 98	14 84	1646
1519	Susquehanna Fertilizer Co., Baltimore. Md.,	Soluble Bone Phosphate, ...	Two, ...	5.19	7.76	7.64	0.84	16.24	13 69	13 63	1519
1655	" " " "	Soluble Bone Phosphate, ...	Two, ...	2.95	13.39	3.56	1.02	17.97	15 34	12 75	1655
1653	Standard Fertilizer Co., Boston, Mass., ...	Dissolved Bone Phosphate, ...	Six, ...	1.98	14.06	3.13	1.45	18 64	15 74	12 40	1673
1669	Williams & Clark Fertilizer Co., New York,	Acorn Brand, Acid Phosphate,	Four, ...	3.36	12.74	3.01	2.09	17.84	14 94	14 25	16 9
1671	Robert A. Wooldridge Co., Baltimore, Md.,	XXtra Acid Phosphate, ...	Two, ...	4.78	11.33	4.53	0.89	16.75	14 40	11 25	1671
1674	York Chemical Works, York, Pa., ...	Pure Dissolved S.C. Phosphate,	Two, ...	7.31	13.25	1.71	1.25	16.21	14 22	13 00	1674
1675	Zell Guano Co., Baltimore, Md., ...	Dissolved Bone Phosphate, ...	Three, ...	2.98	9.54	7.03	1.33	17.90	14 78	13 75	1675
1679	" " "	Dissolved S. C. Phosphate, ...	Three, ...	3.51	13.28	3.21	0.97	17.46	15 04	12 67	1679